ALL MDCAT TOPPERS RECOMMENDS PRACTICE OF MDCAT PAST PAPERS BOOK

YOU MUST PRACTICE BOOK UNIT WISE MDCAT PAST PAPERS 2008-2019



# UNIVERSITY OF HEALTH SCIENCES (UHS), LAHORE

## MEDICAL COLLEGE APTITUDE TEST (MCAT) PAST PAPERS 2008-2016



MDCAT PAST PAPERS 2008-2019 WITH ANSWER KEY IS VERY IMPORTANT

Page 1 of 16

### University of Health Sciences, Lahore



Total MCQs: 220

#### Max. Marks: 1100

ABCD

### **ENTRANCE TEST - 2008**

For F.Sc. Students Only Time Allowed: 150 minutes

#### **Instructions:**

- i. Read the instructions on the MCQs Response Form carefully.
- ii. Choose the **Single Best Answer** for each question.
- Candidates are strictly prohibited from giving any identification mark except iii. Roll No. & Signature in the specified columns only.

### **COMPULSORY QUESTION FOR IDENTIFICATION**

Q-ID. What is the color of your Question Paper?

B)

	A) White.	(	C) PINK.	and the second second second
5)	Blue.	<u>D) Green.</u>	ID	
	Ans: Colour o	f your Question P	aper is Green.	20000
	Fill the Circ	le Corresponding	to Letter `D'	30000
		in your MCQ re		40000
	-			+10000
	(EXACLIY AS SI	own in t <mark>h</mark> e diagra	<i>.</i>	
		PHYSIC	<u>'S</u>	
Q.1		es an electron, it become		
	A) An alpha particle. B) Proton.		C) A positive helium ion. D) A negative helium ion.	
	b) Hotoli.		)) A negative neitam ion.	
Q.2	Beta ray emitted by a ra	dioactive substance is:		
	A) An electron which was e			
	B) An electron which was e		مال مان من المراجع الم	
	D) A pulse of electromagne		e decay of neutron inside the	nucleus.
	D) A pulse of electromagne	lic wave.		
Q.3	An electric charge in un	form motion produces:		
-	A) An electric field.		C) Both magnetic and electric	
	B) A magnetic field.	ſ	D) Neither magnetic nor election	tric fields.
Q.4	What is amitted by a bo	t metal filament in a cath	odo rov tubo?	
4.Y	A) X-ray.		C) Electron.	
	B) Proton.		D) Photon.	
			,	
Q.5		f a pendulum is doubled		
	A) Halved.		C) Unchanged.	
	B) Doubled.	l	D) Increases four times.	
Q.6	The centre of Newton ri	ngs is dark due to:		
-	A) Polarization.		C) Constructive interference.	

B) Destructive interference.

- D) Reflection.

Q.7	2 of 16 Which one is most stable element on the basis of binding energy?			
	A) Sn.	C) Kr.		
	В) Ва.	D) Fe.		
Q.8	Resistance in RC circuit of time constant 2 seconds is 1000 Ohms. What is value of C in the circuit?			
	A) 2 µ farad.	C) 200 µ farad.		
	B) 20 $\mu$ farad.	D) 2000 µ farad		
Q.9	The Lenz's law refers to induced	C) Shear.		
	B) Resistance.	D) Currents.		
Q.10	In which of the following, output is A) NOR.	s similar to NAND gate if input A=0 and input B=1. C) XOR.		
	B) XNOR.	D) Both B and C.		
Q.11	For atomic hydrogen spectrum, wh electromagnetic spectrum?	nich of the following series lies in visible region of		
	A) Lyman series.	C) Balmer series.		
	B) Paschen series.	D) Bohr series.		
Q.12	are the particles that	experience strong nuclear force.		
•	A) Electrons.	C) Neutrinos.		
	B) Muons.	D) Neutrons.		
Q.13	The vertical velocity of ball throwr	n upwardwith time.		
-	A) Decreases linearly.	C) Doubles.		
	B) Remains constant.	D) Decreases parabolically.		
Q.14	The force required to bend the nor force.	rmally straight path of a particle into a circular path is calle		
	A) Traveling.	C) Centrifugal.		
	B) Bending.	D) Centripetal.		
Q.15	A disc at rest without slipping, rolls when it reaches at the bottom?	s down a hill of height (3 x 9.8) m. What is its speed in m/se		
	A) 11.4.	C) 22.8.		
	B) 19.6.	D) 9.8.		
Q.16	Tuning of the radio is the best example			
	A) Resonance.	C) Current.		
	B) Resistance.	D) None of these.		
Q.17	A standing wave pattern is formed when the length of string is an integral multiple of wavelength.			
	A) Triple.	C) Half.		
	B) Full.	D) Double.		
Q.18	Which of the following lights trave	Is the fastest in optical fibres?		
	A) Visible light.	C) Ultra-violet.		
	B) Invisible infra-red.	D) Ordinary light.		
Q.19	The algebraic sum of potential cha	nges in a closed circuit is zero is Kirchhoff' <u>s</u> rule		
-	A) First.	C) Third.		
	B) Second.	D) None of these.		
		with aduring forward bias conduction, a photor		
Q.20	مقيرية مامام المهملة أم مستلك مط			
Q.20	of visible light is emitted.	C) Hole		
Q.20	<b>of visible light is emitted.</b> A) High voltage. B) Photon.	C) Hole. D) Positron.		

## **READ ME**

Q.21	For photons of energy greater than 1.02 l	Page 3 of 1 MeV the probability of pair production occurrence
Q.21	as the energy increases.	nev the probability of pair production occurrence
	A) Increase.	C) Reduces to half.
	B) Completely diminishes.	D) Remains unchanged.
Q.22	The neutron is assumed to be made of	
-	A) One up quark and two down quarks.	C) Two up quarks and one down quark.
	B) Two up quarks and two down quarks.	D) One up quark and one down quark.
Q.23	Anmissile is called a ballistic	missile.
-	A) Un-powered and guided.	C) Powered and guided.
	B) Un-guided and powered.	D) Un-powered and un-guided.
Q.24		m same material. The one with the larger diameter
		the action of same torque.
	A) Faster than.	C) Equal to.
	B) Slower than.	D) None of these.
Q.25	The angular frequency of simple pendulur	m is directly proportional to
	A) I.	C) v İ.
	B) 1/l.	D) v1/l.
Q.26	Two waves of slightly different frequencie	es and traveling in same direction produce
-	A) Interference.	C) Stationary waves.
	B) Polarization.	D) Beats.
Q.27	A single mode step index fibre has core of	f abou <u>t um diameter</u>
-	A) 50 to 1000.	C) 30.
	B) 50.	D) 5.
Q.28	A 5 Ohm resistor is indicated by a single_	color band around its body.
	A) Red.	C) Blue.
	B) Green.	D) Brown.
Q.29	Practicallycurrent flows in a	reverse biased p-n junction.
	A) No.	C) Few milliamperes.
	B) Very large.	D) Both A and C.
Q.30	Cesium coated oxidized silver emits electi	rons fo <u>r</u> light.
	A) Infrared.	C) Visible.
	B) Ultraviolet.	D) Green.
Q.31	The cobalt is absorbed by	
-	A) Bones.	C) Liver.
	B) Skin.	D) Thyroid gland.
Q.32	In a step-down transformer the output cu	ırrent
-	A) Is reduced.	C) Remains same.
	B) Is increased.	D) None of these.
Q.33	Force in terms of base units is expressed a	26
2.55	A) kg ms <sup>-2</sup> .	C) kg m <sup>2</sup> s <sup>-3</sup> .
	B) kg m <sup>2</sup> s <sup>-2</sup> .	D) None of these.
Q.34	100 joules work has been done by an ago	ncy in 10 seconds. What is power of agency?
4.J4	A) 1000 watt.	C) 10 watt.
	B) 100.	D) 0.10 watt.
Q.35	The acceleration is proportional to the dis motion.	placement and is directed towards mean position in
	A) Gravity.	C) Uniform.
	B) Simple harmonic.	D) Projectile.

Q.36	In gases, the speed of sound is inversely pro factors are same.	portional toof the density when othe
	A) Square root.	C) Third power.
	B) Square.	D) Third root.
Q.37	A watch maker usesto repair th	e watches.
-	A) Telescope.	C) Convex lens.
	B) Convex mirror.	D) Concave lens.
Q.38	<b>A 2m long pipe is open at both ends. What is</b> A) 42.5 Hz.	its harmonic frequency? C) 220 Hz.
	B) 85 Hz.	D) None of these.
Q.39	A wire has resistance 100 Ohm at 0 °C and 20	0 Ohm at 100 °C. What is its temperature coefficien
	in K-1?	
	A) -0.01.	C) 0.01.
	B) -1/273.	D) 1/273.
Q.40		ons within an atom is due to the field created by
	theirmotion.	C) Orbital & cair
	A) Orbital.	C) Orbital & spin.
	B) Spin.	D) Orbital x spin.
Q.41	At high temperature, the proportion of	wavelength radiation increase.
	A) AM radio.	C) Shorter.
	B) Long radio.	D) Both A and C.
Q.42	In photoelectric effect removal of photons is	
	A) Low.	C) Interme <mark>dia</mark> te.
	B) High.	D) Both A and C.
Q.43	Which device is the most efficient?	
	A) Nuclear reactor.	C) Silicon solar cell.
	B) Storage battery.	D) Dry battery cell.
Q.44	The units of E in E=mc <sup>2</sup> are	
	A) kg m s <sup>-2</sup> .	C) kg m <sup>2</sup> s <sup>-2</sup> .
	B) N m s⁻².	D) Both B and C.
Q.45	Work done on a body equals change in its	energy.
	A) Total.	C) Kinetic.
	B) Potential.	D) All of these.
Q.46		to 4 m. An incompressible fluid enters the pipe
	with velocity 16m/sec. What is velocity of flu	
	A) 64 m/sec.	C) 8 m/sec.
	B) 32 m/sec.	D) 4 m/sec.
Q.47	Transverse waves cannot be setup in	
	A) Metals.	C) Fluids.
	B) Solids.	D) Soil.
Q.48	The ratio of theis called magnif	
	A) Image size to object size.	C) Eyepiece size to object size.
	B) Object size to image size.	D) None of these
Q.49	Which of the following has the highest resis	tivity?
	A) Germanium.	C) Copper.
	B) Silver.	D) Platinum.
	b) Silver.	b) Hadhann
Q.50	, ,	,
Q.50	An n-type semi-conductor is made by doping A) Indium.	,

Q.51	Objects cannot be accelerated to the speed of light in free space is consequence of		
	<ul><li>A) Mass variation.</li><li>B) Energy-mass relationship.</li></ul>	C) Inertia forces. D) All of these.	
Q.52	A certain radioactive mass decays from 64 gm		
	A) 5 days.	C) 10 days.	
	B) 4 days.	D) 6 days.	
Q.53		y R, which of the following is true for a choke?	
	A) R is large, L is very small.	C) Both R and L are large.	
	B) R is very small, L is large.	D) Both R and L are very small.	
Q.54	A force 2i + j has moved its point of application	on from (2,3) to (6,5). What is work done?	
-	A) -10.	C) -18.	
	B) +10.	D) +18.	
Q.55	The escape velocity corresponds to	energy gained by body, which carries it to an	
	infinite distance from the surface of earth.		
	A) Total.	C) Initial kinetic.	
	B) Potential.	D) None of these.	
Q.56	The drag force decreases as the speed of an o	bject moving through fluid	
-	A) Increases.	C) Remains constant.	
	B) Decreases.	D) Both B and C.	
Q.57	Light year is a measure of		
<b>L</b>	A) Distance.	C) Intensity of light.	
	B) Time.	D) Velocity.	
Q.58	A vellow light of wavelength 500 mm emitted	by a single source passes through two narrow slits	
Q.50		bright fringes when interference is observed on a	
	screen 10 m away?		
	A) 5 mm. B) 1.33 mm.	C) 0.5 mm. D) 50 mm.	
	b) 1.55 mm.	b) 30 mm.	
Q.59	The heat produced by a current I in the wire o		
	A) I <sup>2</sup> /Rt.	C) $I^2/R/t$ .	
	B) I <sup>2</sup> Rt.	D) IR <sup>2</sup> t.	
Q.60	Which of the following is the most ductile?		
	A) Glass.	C) Cast iron.	
	B) Copper.	D) High carbon steel.	
		TOV	
	<u>CHEMIS</u>	<u>DIRT</u>	
Q.61	Which type of bonding is present in NH <sub>4</sub> Cl?		
Q.01	A) Ionic.	C) Coordinate covalent.	
	B) Covalent.	D) All of these.	
Q.62	When CuSO, is clostical in actional solution	an using conner clostrodos, then the substance	
Q.02	when CuSO4 is electrolyzed in aqueous solution which deposits at the cathode is:	on using copper electrodes, then the substance	
	A) Copper metal.	C) Hydrogen.	
	B) Copper ions.	D) Oxygen.	
Q.63	Aldehydes can be synthesized by the oxidation	n of	
Q.05	A) Primary alcohols.	C) Organic acids.	
	B) Secondary alcohols.	D) Inorganic acids.	
0.64	The products of the formentation of a success	re othenol and	
Q.64	The products of the fermentation of a sugar a A) Water.	C) Carbon dioxide.	
	B) Oxygen.	D) Sulfur dioxide.	

Page 6		
Q.65	serve as carriers of heredity from	
	A) Lipids.	C) Formaldehydes.
	B) Caseins.	D) Nucleoproteins.
Q.66	extraction is controlled by partition	
	A) Iodine.	C) Solvent.
	B) Benzoic acid.	D) Stationery.
Q.67	The process of effusion is best understood by	law.
	A) Graham's.	C) Boyle's.
	B) Charles's.	D) None of these.
Q.68	has dipole moment.	
Q100	A) CO.	C) Benzene.
	B) CO <sub>2</sub> .	D) All of these.
	5,001	
Q.69	is used as catalyst in Haber's proc	
	A) Iron.	C) Copper.
	B) Carbon.	D) Silver.
Q.70		lifferent from the other alkali metals.
	A) Li.	C) Na.
	B) Be.	D) K.
Q.71	Which element forms long chains alternating v	vith oxygen?
<b>L</b> =	A) Carbon.	C) Nitrogen.
	B) Silicon.	D) All of these.
Q.72	The percentage of carbon in medium carbon st	
	A) 0.7-1.5.	C) 0.2-0.7.
	B) 0.1-0.2.	D) 1.6-2.00.
0 72	Name the rare balagen among the following	
Q.73	Name the rare halogen among the following. A) F.	C) I.
	B) Cl.	D) At.
Q.74	Which bond will break when electrophile attac	ks an alcohol?
	A) O - H.	C) Both A and B.
	B) C - O.	D) None of these.
Q.75	The extent of un-saturation in a fat is expresse	
	A) Acid number. B) Iodine number.	C) Saponification number. D) None of these.
	b) Iouine number.	D) None of these.
Q.76	The process of filtration is used to separate	particles from liquids.
•	A) Radial.	C) Insoluble.
	B) Angular.	D) Soluble.
Q.77	London forces are very significant in	<u> </u>
	A) Sulphur.	C) Argon.
	B) Phosphorous.	D) Sugar.
Q.78	Which of the following formation is endotherm	ic reaction?
Y.10	A) $2H_{2(g)} + O_{2(g)} \longrightarrow 2H_2O_{(l)}$ .	C) $N_{2(g)} + O_{2(g)} \longrightarrow N_2O_{2(g)}$ .
	B) $C(s) + O2(g) \longrightarrow CO2(g)$ .	D) None of these.
Q.79	Name the partially miscible liquids from the fol	llowing?
-	A) Alcohol-ether.	C) Benzene-water.
	B) Nicotine-water.	D) Both A and B.
Q.80	AlI <sub>3</sub> (Aluminium Iodide) is electrically a	
	A) Conductor.	C) Semiconductor.
	B) Non-conductor.	D) None of these.

Q.81	The elements of IIIA to VIIIA elements.	Page 7 of 16 subgroups except He are known as block		
	A) q.	C) p.		
	B) s.	D) None of these.		
Q.82	Concentrated nitric acid gives	when it reacts with tin.		
	A) Nitric oxide.	C) Ammonium nitrite.		
	B) Meta stannic acid.	D) None of these.		
Q.83	Sulphuric acid is used to manufac A) HCl and HNO <sub>3</sub> .	C) Both A and B.		
	B) H <sub>3</sub> PO <sub>4</sub> .	D) Both HCl and 2COOH.		
Q.84	Alkanes containingc	arbon atoms are waxy solids.		
-	A) up to 4.	C) 18 or more.		
	B) 5 to 17.	D) None of these.		
Q.85	Which of the following is used to			
	A) Acetaldehyde. B) Formaldehyde.	C) None of these. D) Both A and B.		
	b) ronnalaenyae.			
Q.86		d to react with 6 moles of oxygen. How much water will be		
	<b>obtained from reaction on comple</b> A) 10 moles.	C) 6 moles.		
	B) 8 moles.	D) 4 moles.		
	b) 8 moles.	D) 4 moles.		
Q.87	The highest temperature a substa			
	A) Solid.	C) Gas.		
	B) Liquid.	D) Isotope.		
Q.88	hybridization leads to a regular tetrahedral structure.			
<b>L</b>	A) sp <sup>3</sup> .	C) sp.		
	B) sp <sup>2</sup> .	D) All of these.		
Q.89	Osmotic pressure of a solution is_	property.		
Q.09	A) Obligative.	C) Colligative.		
	B) Fractional.	D) Automated.		
Q.90	Magnesium reacts with hydroger forming magnesium hydride.	n at high pressure in the presence of catalyst		
	A) Dolomite.	C) Mg3N2.		
	B) MgI <sub>2</sub> .	D) Epsom salt.		
Q.91	Which element has the largest nu	C) Oxygen.		
	A) Phosphorous. B) Sulphur.	D) Both A & C.		
	b) Sulphur.	D) bour A & C.		
Q.92	With increase in number of unpai			
	A) Increases.	C) Remains constant.		
	B) Decreases.	D) Decreases then increases.		
Q.93	Which metal is commonly used to	remove air bubbles from molten metals?		
	A) Aluminium.	C) Sodium.		
	B) Copper.	D) Calcium.		
	Which of the following hands has	minimum hand anarm?		
0.04		minimum bona energy?		
Q.94	Which of the following bonds has	C) C - I		
Q.94	A) C - F.	C) C - I. D) C - Br		
Q.94		C) C - I. D) C - Br.		
-	A) C - F. B) C - Cl. Which of the following does not r	D) C - Br. eact with water?		
Q.94 Q.95	A) C - F. B) C - Cl.	D) C - Br.		

Page 8	of 16	
Q.96	Al <sub>2</sub> O <sub>3</sub> (SiO <sub>2</sub> ).2H <sub>2</sub> O is called	
	A) Clay.	C) Asbestos.
	B) Talc.	D) None of these.
Q.97	<b>CaO forms fertilize slag by react</b> A) P <sub>2</sub> O <sub>5</sub> .	ing with C) Silica.
	B) Fe <sub>2</sub> O <sub>3</sub> .	D) FO.
Q.98	is colorless volatile	liquid at room temperature.
	A) HCI.	C) HI.
	B) HF.	D) HBr.
Q.99	Hydrogen passed through pheno cyclohexanol.	ol at 150 °C in the presence of catalyst gives
	A) Tin.	C) Iron.
	B) Nickel.	D) Sodium.
Q.100	Ethanol-water ismi	xture.
	A) Azeotropic.	C) Benedict's.
	B) Ideal.	D) Aliphatic.
Q.101	The mobile phase in paper chron	
	A) An organic liquid.	C) Water.
	B) Sulphuric acid.	D) Silver nitrate.
Q.102	The amount of heat absorbed by denoted by	one mole of solid at 1 atm when it melts into liquid form is
	A) Δ H <sub>ν</sub> .	C) Δ Hi.
	B) Δ H <sub>f</sub> .	D) Δ Hs.
Q.103	In synthetic fibresI	oonding is responsible for tensile strength.
-	A) Nitrogen.	C) Oxygen.
	B) Hydrogen.	D) None of these.
Q.104	Boiling point of HF is	_H2O.
	A) Lower than.	C) Equal to.
	B) Higher than.	D) Almost same as.
Q.105	is necessary for de	velopment of leaves and it tends to accumulate in leaves and
	bark.	
	A) NO <sub>2</sub> .	C) Gypsum.
	B) Calcium.	D) Nitrogen.
Q.106	Which of the following is pale ye	-
		C) PbO.
	A) Pb <sub>2</sub> O.	,
	A) PD20. B) PbO2.	D) 2PbCO <sub>3</sub> .Pb(OH) <sub>2</sub> .
Q.107	B) PbO <sub>2</sub> . In which of the following carbon	D) 2PbCO3.Pb(OH)2.
Q.107	<ul><li>B) PbO<sub>2</sub>.</li><li>In which of the following carbon A) Alkane.</li></ul>	D) 2PbCO3.Pb(OH)2. n is double bonded with itself? C) Alkene.
Q.107	B) PbO <sub>2</sub> . In which of the following carbon	D) 2PbCO3.Pb(OH)2.
	<ul> <li>B) PbO<sub>2</sub>.</li> <li>In which of the following carbon</li> <li>A) Alkane.</li> <li>B) Ether.</li> <li>In this process, higher hydrocard</li> </ul>	D) 2PbCO3.Pb(OH)2. n is double bonded with itself? C) Alkene. D) Alkyne. bons can be cracked at lower temperature and lower pressure.
	<ul> <li>B) PbO<sub>2</sub>.</li> <li>In which of the following carbon</li> <li>A) Alkane.</li> <li>B) Ether.</li> <li>In this process, higher hydrocart</li> <li>A) Thermal cracking.</li> </ul>	D) 2PbCO <sub>3</sub> .Pb(OH) <sub>2</sub> . <b>n is double bonded with itself?</b> C) Alkene. D) Alkyne. <b>bons can be cracked at lower temperature and lower pressure.</b> C) Steam cracking.
	<ul> <li>B) PbO<sub>2</sub>.</li> <li>In which of the following carbon</li> <li>A) Alkane.</li> <li>B) Ether.</li> <li>In this process, higher hydrocard</li> </ul>	D) 2PbCO3.Pb(OH)2. n is double bonded with itself? C) Alkene. D) Alkyne. bons can be cracked at lower temperature and lower pressure.
Q.108	<ul> <li>B) PbO<sub>2</sub>.</li> <li>In which of the following carbon</li> <li>A) Alkane.</li> <li>B) Ether.</li> <li>In this process, higher hydrocard</li> <li>A) Thermal cracking.</li> <li>B) Catalytic cracking.</li> <li>Acetic acid is called</li></ul>	D) 2PbCO <sub>3</sub> .Pb(OH) <sub>2</sub> . <b>n is double bonded with itself?</b> C) Alkene. D) Alkyne. <b>bons can be cracked at lower temperature and lower pressure.</b> C) Steam cracking. D) Reforming. <b>_acid.</b>
Q.108	<ul> <li>B) PbO<sub>2</sub>.</li> <li>In which of the following carbon</li> <li>A) Alkane.</li> <li>B) Ether.</li> <li>In this process, higher hydrocar</li> <li>A) Thermal cracking.</li> <li>B) Catalytic cracking.</li> <li>Acetic acid is called</li></ul>	D) 2PbCO <sub>3</sub> .Pb(OH) <sub>2</sub> . <b>n is double bonded with itself?</b> C) Alkene. D) Alkyne. <b>bons can be cracked at lower temperature and lower pressure.</b> C) Steam cracking. D) Reforming. <b>_acid.</b> C) Ethanoic.
Q.108	<ul> <li>B) PbO<sub>2</sub>.</li> <li>In which of the following carbon</li> <li>A) Alkane.</li> <li>B) Ether.</li> <li>In this process, higher hydrocard</li> <li>A) Thermal cracking.</li> <li>B) Catalytic cracking.</li> <li>Acetic acid is called</li></ul>	D) 2PbCO <sub>3</sub> .Pb(OH) <sub>2</sub> . <b>n is double bonded with itself?</b> C) Alkene. D) Alkyne. <b>bons can be cracked at lower temperature and lower pressure.</b> C) Steam cracking. D) Reforming. <b>_acid.</b>
Q.108 Q.109	<ul> <li>B) PbO2.</li> <li>In which of the following carbon</li> <li>A) Alkane.</li> <li>B) Ether.</li> <li>In this process, higher hydrocard</li> <li>A) Thermal cracking.</li> <li>B) Catalytic cracking.</li> <li>B) Catalytic cracking.</li> <li>Acetic acid is called</li></ul>	D) 2PbCO <sub>3</sub> .Pb(OH) <sub>2</sub> . <b>n is double bonded with itself?</b> C) Alkene. D) Alkyne. <b>bons can be cracked at lower temperature and lower pressure.</b> C) Steam cracking. D) Reforming. <b>acid.</b> C) Ethanoic. D) Butanoic. <b>_electron configuration notation</b>
Q.107 Q.108 Q.109 L10 Na	<ul> <li>B) PbO<sub>2</sub>.</li> <li>In which of the following carbon</li> <li>A) Alkane.</li> <li>B) Ether.</li> <li>In this process, higher hydrocard</li> <li>A) Thermal cracking.</li> <li>B) Catalytic cracking.</li> <li>B) Catalytic cracking.</li> <li>Acetic acid is called</li></ul>	D) 2PbCO <sub>3</sub> .Pb(OH) <sub>2</sub> . <b>n is double bonded with itself?</b> C) Alkene. D) Alkyne. <b>bons can be cracked at lower temperature and lower pressure.</b> C) Steam cracking. D) Reforming. <b>acid.</b> C) Ethanoic. D) Butanoic.

Q.111	Which is the best drying agent in desiccators? A) KOH. B) Gypsum.	C) CaCl <sub>2</sub> . D) Silica sand.
Q.112	<b>100 m<sup>3</sup> of a gas at 3 atm pressure and 27 °C is a maintained at a temperature of 327 °C. What v</b> A) 6 atm. B) 4 atm.	
Q.113	The crystals ofare ionic solids. A) Sugar. B) Iron.	C) Diamond. D) NaCl.
Q.114	Which material possesses the highest pH? A) Soft drinks. B) Bananas.	C) Milk of magnesia. D) Sea water.
Q.115	The electron present in a particular orbit A) Releases. B) Does not radiate.	energy. C) Absorbs. D) None of these.
Q.116	Al <sub>2</sub> F <sub>2</sub> SiO <sub>4</sub> is named as A) Gibbsite. B) Emerald.	C) Bauxite. D) Cryolite.
Q.117	Name the oxide in which N has the highest oxide. A) Nitrous oxide. B) Nitric oxide.	idation number. C) Nitrogen peroxide. D) Nitrous anhydride.
Q.118	Sulphur has oxidation state of A) ± 2. B) + 4 and +6.	C) None of these. D) Both A and B.
Q.119	CH <sub>3</sub> -O-CH <sub>3</sub> is example ofisomerism A) Metamerism. B) Functional group.	<b>n.</b> C) Chain. D) Position.
Q.120	are product of reaction of an alco A) Acrylic resins. B) Polyester resins.	<b>hol and aromatic bi-functional acids.</b> C) PVCs. D) Polyamide resins.
	ENGLI	<u>SH</u>
Q.121	A) Robbed. B) Stolen.	C) Pinched. D) Established.
Q.122	The presence of armed guardsu A) Defeated. B) Excited.	<b>is from doing anything disruptive.</b> C) Irritated. D) Prevented.
Q.123	Our flight wasfrom Lahore to Isla A) Diverted. B) Reflected.	<b>mabad airport.</b> C) Deflected. D) Shifted.
Q.124	I amforward to our picnic schedul A) Looking. B) Planning.	l <b>ed in next month.</b> C) Seeing. D) Going.

Visit MBBS.COM.PK For FREE HOME DELIVERY MDCAT PAST Papers

Page 1	underlined. Your task is to identify that	ences, some segments of each sentence are underlined segment of the sentence, which prrected. Fill the Circle corresponding to that onse From.	
Q.125	They <u>did not</u> guess <u>how closely</u> he <u>had kept in</u> touch A) B) C)	n <u>with across</u> the road. D)	
Q.126	He proved <u>that if</u> only <u>germs were</u> excluded <u>of wour</u> A) B) C)	n <u>ds</u> , <u>inflammation was</u> averted. D)	
Q.127	The man felt <u>his hair flutter</u> and the tissues of his <u>bo</u> A) <u>of a vacuum</u> . D)	ody drew tight as if he <u>were standing</u> at the centre B) C)	
Q.128	He <u>came to the hurdles that he remember</u> , <u>over whi</u> A) B) C	<u>ch once</u> he had <u>so easy</u> a victory. C) D)	
Q.129	What <u>is meant</u> by birth-rate <u>and death-rate</u> and <u>how</u> A) B) C		
Q.130	She <u>had left</u> him with a <u>calmness and a poise that a</u> A) B) C)	<u>ccord</u> well with his <u>own inward</u> emotions. D)	
$\Rightarrow$	In each of the following question, four alternative sentences are given. Choose the CORRECT one and fill the Circle corresponding to that letter in the MCQ Response Form.		
Q.131	<ul> <li>A) He lacked both the training and the equipment need</li> <li>B) He lacked both the training and the equipment need</li> <li>C) He lacked both the training and the equipment need</li> <li>D) He lacked both the training and the equipment need</li> </ul>	eded by the job. eded on the job.	
Q.132		<ul> <li>C) They tried to pacify him by kindness and affection.</li> <li>D) They tried to pacify him with kindness and affection.</li> </ul>	
Q.133	A) Then he sat down in corner and remained queit. B) Then he sat down in corner and remained quite.	C) Then he sat down in corner and remain quiet. D) Then he sat down in corner and remained quiet.	
Q.134	<ul><li>A) He was drenched with the hotness of his fear.</li><li>B) He was drenched in the hotness of his fear.</li></ul>	C) He was drenched by the hotness of his fear. D) He was drenched off the hotness of his fear.	
Q.135	<ul><li>A) Why did you disagree with me?</li><li>B) Why did you disagree to me?</li></ul>	C) Why did you disagree on me? D) Why did you disagree by me?	
Q.136	<ul> <li>A) Do not stuff your head by things you do not unde</li> <li>B) Do not stuff your head with things you do not unde</li> <li>C) Do not stuff your head for things you do not unde</li> <li>D) Do not stuff your head in things you do not unde</li> </ul>	derstand. erstand.	
Q.137	<ul> <li>A) A day later he reached his first glimpse of Lahore.</li> <li>B) A day later he took his first glimpse of Lahore.</li> <li>C) A day later he found his first glimpse of Lahore.</li> <li>D) A day later he caught his first glimpse of Lahore.</li> </ul>		

Q.138

A) This will have a bad impact to the economy.B) This will have a bad impact on the economy.

#### Q.139

A) It would save him from dying of thirst.

B) It would save him from dying from thirst.

- Q.140
  - A) All this flashed by his mind in an instant of protest.B) All this flashed on his mind in an instant of protest.C) All this flashed through his mind in an instant of protest.
    - D) All this flashed by off mind in an instant of protest.

In each of the following question, four alternative meanings of a word are given. You have to select the NEAREST CORRECT MEANING of the given word and fill the appropriate Circle on the MCQ Response Form.

Q.141	<b>VEXING</b> A) Annoying. B) Aggressive.	C) Viable. D) Waxy.
Q.142	<b>VAGUE</b> A) Respectful. B) Uncertain.	C) Warlock. D) Snow white.
Q.143	MANGLED A) Dodged. B) Grained.	C) Indisputable. D) Damaged.
Q.144	PRODIGIOUS A) Productive. B) Enormous.	C) Prudential. D) Waddle.
Q.145	ASTOUNDED A) Shocked. B) Discarded.	C) Assured. D) Attracted.
Q.146	SAGACITY A) Foolishness. B) Large City.	C) Onions. D) Wisdom.
Q.147	GRIM A) Gratis. B) Restless.	C) Severe. D) Grater.
Q.148	INDOLENTLY A) Lazily. B) Indecently.	C) Ideally. D) Gaily.
Q.149	PERISH A) Furious. B) Come to death.	C) Secret. D) Frustrated.
Q.150	DOZE A) Dogged. B) Diet.	C) Sleep. D) Medicine to be taken.
	<b>BIOLO</b>	<u>GY</u>
0 1 5 1	Which of the following recorders and dues cons	ation of nain?

#### Q.151 Which of the following receptors produce sensation of pain?

A) Mechanoreceptor.

B) Nociceptors.

C) Chemoreceptors. D) Thermoreceptors.

C) It would save him from dying with thirst. D) It would save him from dying by thirst.

C) This will have a bad impact at the economy.

D) This will have a bad impact over the economy.

Q.152	L2 of 16 When your finger accidentally gets caught in a door, the pain message is sent to your brain through			
	A) Homeostasis.	C) Caffeine.		
	B) Sensory receptors.	D) The medulla.		
Q.153	Neck hastype of joint.			
•	A) Ball and socket.	C) Hinge.		
	B) Pivot.	D) Fibrous.		
Q.154	End product of hemoglobin break down is			
£	A) Creatinine.	C) Hypoxanthin.		
	B) Bilirubin.	D) Xanthin.		
Q.155	In what direction, can a DNA polymerase v monomers to build a strand of DNA?	work when catalyzing the addition of nucleo <mark>t</mark> ide		
	<ul> <li>A) From the 5' toward the 3' end of the new stra</li> <li>B) From the replication centers in two directions</li> <li>C) From the 3' to the 5' end of the strand being</li> </ul>	called replication forks.		
	D) In both directions if DNA ligase is present.			
Q.156	Which bond is the potential source of che			
	A) C-N.	С) С-Н.		
	B) C-O.	D) H-O.		
Q.157	Sharks and rays are included in class:			
	A) Cyclostomata.	C) Osteichthyes.		
	B) Chondrichthyes.	D) Tetrapoda.		
Q.158	In what stage of aerobic respiration are 2-carbon molecules oxidized completely to carbon			
	dioxide?			
	A) Glycolysis.	C) Krebs cycle.		
	B) ETC.	D) Calvin cycle.		
Q.159	Which of the following does not have specialized respiratory organs?			
	A) Hydra.	C) Cockroach.		
	B) Birds.	D) Both A and B.		
Q.160	Humming birds belong to the category —			
	A) Heterotherms.	C) Ectotherms.		
	B) Endotherms.	D) None of these.		
Q.161	Syphilis is caused by			
	A) Neisseria gonorrhoeae.	C) Treponema pallidum.		
	B) Cats worm.	D) Herpes simplex.		
Q.162	In moths' male is			
	A) Heterogametic.	C) Homogametic.		
	B) Dieogametic.	D) Both B and C.		
Q.163	When carbon dioxide pressure increases t	he capacity of haemoglobin to hold oxygen:		
	A) Increases many folds.	C) Remains constant.		
	B) Decreases.	D) Is doubled.		
Q.164	The soluble part of the cytoplasm is terme	ed as		
-	A) Cisternae.	C) Endocytosis.		
	B) Cytosol.	D) Both A and B.		
		s infusion henatitis		
0.165	Name the enveloped RNA virus that cause			
Q.165	Name the enveloped RNA virus that cause A) HBV.			
Q.165	Name the enveloped RNA virus that cause A) HBV. B) HAV.	C) HCV. D) None of these.		
-	A) HBV. B) HAV.	C) HCV. D) None of these.		
Q.165 Q.166	A) HBV.	C) HCV. D) None of these.		

Q.167	Name the vertebrates which are without jaws.	· ····································
Q.107	A) Osteichthyes.	C) Chondrichthyes.
	B) Cyclostomata.	D) None of these.
Q.168	The total inside capacity of lungs of adult huma	an beings when fully inflated is
<b>L</b>	A) 5 ml.	C) 500 ml.
	B) 50 ml.	D) 5000 ml.
	-,	-,
Q.169	Which of the following belong to collenchyma of	cells?
	A) Fibers.	C) Sclereides.
	B) Vessels.	D) None of these.
Q.170	Which of the following promotes both leaf and	fruit growths?
	A) Auxins.	C) Abscisic acid.
	B) Gibberellins.	D) Ethane.
Q.171	Name the external factor of growth in plants	
	A) Carbon dioxide.	C) Hormones.
	B) Water.	D) Nutrition.
0 172	The genes of blue onein are present on	
Q.172	The genes of blue opsin are present on A) Autosome 9.	C) Autosome 1.
	B) Autosome 7.	D) Autosome 3.
	b) Autosome 7.	D) Autosome 5.
Q.173	The dew drops on tips of grass leaves is an exa	mple of
<b>L</b>	A) Infestation.	C) Exudation.
	B) Bleeding.	D) Imbibition.
Q.174	Which of the following modifies proteins and li	
	A) Golgi Apparatus.	C) Plasma membrane.
	B) Polysome.	D) None of these.
0 4 7 5	Which of the following one mind along a discussion	
Q.175	Which of the following are spiral-shaped bacte A) Cocci.	C) Pseudomonas.
	B) Bacilli.	D) Vibrio.
	b) bacını.	
Q.176	Which of the following is used for lowering blo	od cholesterol?
		C) Aspergillus.
	B) Griseofulvin.	D) Lovastatin.
Q.177	Which of the following are called placental man	
	A) Prototheria.	C) Metatheria.
	B) Eutheria.	D) All of these.
0 1 70	The attraction among water male sules which h	ald water tegether is called
Q.178	The attraction among water molecules which h A) Tension.	C) Cohesion.
	B) Adhesion.	D) Ambibition.
	b) Adhesion.	
Q.179	Pick the paratonic movement from the followin	a
Q117.5	A) Nastic.	C) Growth.
	B) Turgor.	D) Tactic.
Q.180	It controls the several automatic functions like	
	A) Midbrain.	C) Medulla.
	B) Pons.	D) Cerebellum.
0 1 0 -		
Q.181	Which of the following has 40 chromosomes?	
	A) Corn.	C) Frog.
	B) Sugarcane.	D) Mouse.
Q.182	The cell suspension culture ofprod	luces quinine.
4.102	A) Soybean.	C) Digitalis lanata.
	B) Cinchona ledgeriana.	D) Luceferin.

	Which one of the following is m	
	A) Microtubules.	C) Intermediate filaments.
	B) Micro filaments.	D) Both A and B.
Q.184	Name the human tissues that co	ontain about 85% water.
•	A) Nerve cells.	C) Brain cells.
	B) Bone cells.	D) None of these.
Q.185	Which of the following are color	rless?
•	A) Chloroplasts.	C) Leucoplasts.
	B) Chromoplasts.	D) None of these.
Q.186	Name the one involved in DNA	replication.
•	A) Cysts.	C) Ribosomes.
	B) Mesosomes.	D) Spores.
Q.187	Which of the following has root	less sporophytes?
	A) Psilopsida.	C) Lycopsida.
	B) Tracheophyta.	D) Sphenopsida.
0 1 0 0		wave length.
Q.188	Chlorophylls absorb mainly A) Yellow.	wave length. C) Violet-blue.
	B) Green.	D) Indigo.
Q.189	<u>did not have the adaptat</u> A) Both B, D.	ions to remove the flooding of their cells in fresh water. C) None of B, D.
	B) Hydrophytes.	D) Xerophytes.
	by Hydrophycesi	
Q.190	Which of the following is made	up of bones and cartilage?
	A) Endoskeleton.	C) Hydrostatic skeleton.
	B) Exoskeleton.	D) Both A and B.
Q.191	This disease is characterized by	the decline in brain function.
	A) Alzheimer's disease.	C) Epilepsy.
	B) Parkinson's disease.	D) None of these.
Q.192	Prophase, metaphase and telop	hase are subdivisions of
•	A) Mitosis.	C) Cytokinesis.
	B) Karyokinesis.	D) None of these.
0 102		nally different but structurally alike
Q.193	A) Analogous.	nally different but structurally alike. C) Homologous.
	B) Unilogous.	
-	B) Unilogous.	D) Hypologous.
Q.194	Which of the following gives blu	D) Hypologous. ue color with iodine?
-	<b>Which of the following gives blu</b> A) Starch.	D) Hypologous. ue color with iodine? C) Glycogen.
-	Which of the following gives blu	D) Hypologous. ue color with iodine?
-	Which of the following gives blu A) Starch. B) Cellulose. Herpes simplex is caused by	D) Hypologous. ue color with iodine? C) Glycogen. D) All of these. virus.
Q.194	Which of the following gives blu A) Starch. B) Cellulose. Herpes simplex is caused by A) Enveloped RNA.	D) Hypologous. Le color with iodine? C) Glycogen. D) All of these. virus. C) Glycogen.
Q.194	Which of the following gives blu A) Starch. B) Cellulose. Herpes simplex is caused by	D) Hypologous. ue color with iodine? C) Glycogen. D) All of these. virus.
Q.194	Which of the following gives blu A) Starch. B) Cellulose. Herpes simplex is caused by A) Enveloped RNA. B) RNA tumor.	D) Hypologous. Le color with iodine? C) Glycogen. D) All of these. C) Glycogen. C) Glycogen. D) Both B and C. are helpful in fixing atmospheric nitrogen.
Q.194 Q.195	Which of the following gives blu A) Starch. B) Cellulose. Herpes simplex is caused by A) Enveloped RNA. B) RNA tumor.	D) Hypologous. Le color with iodine? C) Glycogen. D) All of these. C) Glycogen. C) Glycogen. D) Both B and C.
Q.194 Q.195	<ul> <li>Which of the following gives blu</li> <li>A) Starch.</li> <li>B) Cellulose.</li> <li>Herpes simplex is caused by</li> <li>A) Enveloped RNA.</li> <li>B) RNA tumor.</li> <li>Name the cyanobacteria which</li> </ul>	D) Hypologous. Le color with iodine? C) Glycogen. D) All of these. C) Glycogen. C) Glycogen. D) Both B and C. are helpful in fixing atmospheric nitrogen.
Q.194 Q.195 Q.196	<ul> <li>Which of the following gives blu</li> <li>A) Starch.</li> <li>B) Cellulose.</li> <li>Herpes simplex is caused by</li> <li>A) Enveloped RNA.</li> <li>B) RNA tumor.</li> <li>Name the cyanobacteria which</li> <li>A) Heterocysts.</li> <li>B) Nostoc.</li> </ul>	D) Hypologous. Le color with iodine? C) Glycogen. D) All of these. virus. C) Glycogen. D) Both B and C. are helpful in fixing atmospheric nitrogen. C) Akinetes. D) Hormogonia.
Q.194 Q.195	<ul> <li>Which of the following gives blu</li> <li>A) Starch.</li> <li>B) Cellulose.</li> <li>Herpes simplex is caused by</li> <li>A) Enveloped RNA.</li> <li>B) RNA tumor.</li> <li>Name the cyanobacteria which</li> <li>A) Heterocysts.</li> <li>B) Nostoc.</li> <li>Name the class that contains set</li> </ul>	D) Hypologous. Le color with iodine? C) Glycogen. D) All of these. virus. C) Glycogen. D) Both B and C. are helpful in fixing atmospheric nitrogen. C) Akinetes. D) Hormogonia. Eedless plants.
Q.194 Q.195 Q.196	<ul> <li>Which of the following gives blu</li> <li>A) Starch.</li> <li>B) Cellulose.</li> <li>Herpes simplex is caused by</li> <li>A) Enveloped RNA.</li> <li>B) RNA tumor.</li> <li>Name the cyanobacteria which</li> <li>A) Heterocysts.</li> <li>B) Nostoc.</li> <li>Name the class that contains see</li> <li>A) Angiospermae.</li> </ul>	D) Hypologous. Le color with iodine? C) Glycogen. D) All of these. virus. C) Glycogen. D) Both B and C. are helpful in fixing atmospheric nitrogen. C) Akinetes. D) Hormogonia.
Q.194 Q.195 Q.196 Q.197	<ul> <li>Which of the following gives blu A) Starch.</li> <li>B) Cellulose.</li> <li>Herpes simplex is caused by</li> <li>A) Enveloped RNA.</li> <li>B) RNA tumor.</li> <li>Name the cyanobacteria which</li> <li>A) Heterocysts.</li> <li>B) Nostoc.</li> <li>Name the class that contains see</li> <li>A) Angiospermae.</li> <li>B) Gemnospermae.</li> </ul>	D) Hypologous. Le color with iodine? C) Glycogen. D) All of these. C) Glycogen. D) Both B and C. are helpful in fixing atmospheric nitrogen. C) Akinetes. D) Hormogonia. Eedless plants. C) Paraphsys. D) Filicineae.
Q.194 Q.195 Q.196	<ul> <li>Which of the following gives blu</li> <li>A) Starch.</li> <li>B) Cellulose.</li> <li>Herpes simplex is caused by</li> <li>A) Enveloped RNA.</li> <li>B) RNA tumor.</li> <li>Name the cyanobacteria which</li> <li>A) Heterocysts.</li> <li>B) Nostoc.</li> <li>Name the class that contains see</li> <li>A) Angiospermae.</li> <li>B) Gemnospermae.</li> <li>Which form of anaerobic respiration</li> </ul>	D) Hypologous. Le color with iodine? C) Glycogen. D) All of these. C) Glycogen. D) Both B and C. are helpful in fixing atmospheric nitrogen. C) Akinetes. D) Hormogonia. Eedless plants. C) Paraphsys. D) Filicineae.
Q.194 Q.195 Q.196 Q.197	<ul> <li>Which of the following gives blu A) Starch.</li> <li>B) Cellulose.</li> <li>Herpes simplex is caused by</li> <li>A) Enveloped RNA.</li> <li>B) RNA tumor.</li> <li>Name the cyanobacteria which</li> <li>A) Heterocysts.</li> <li>B) Nostoc.</li> <li>Name the class that contains see</li> <li>A) Angiospermae.</li> <li>B) Gemnospermae.</li> </ul>	D) Hypologous. Le color with iodine? C) Glycogen. D) All of these. virus. C) Glycogen. D) Both B and C. are helpful in fixing atmospheric nitrogen. C) Akinetes. D) Hormogonia. eedless plants. C) Paraphsys.

Q.199	How much water approximately is required to	
	A) 500 ml.	C) 300 litre.
	B) 5 litre.	D) 500 litre.
0 200	Which discouse source immebility and fusion of	westehand inint?
Q.200	Which disease causes immobility and fusion of	
	A) Sciatica.	C) Disc slip.
	B) Spondylosis.	D) Rickets.
Q.201	Which hormone continues to promote protein s	withesis throughout the body even after the
Q.201	cease in growth?	synthesis anoughout the body even after the
	A) TSH.	C) ACTH.
	B) ADH.	D) STH.
		-,
Q.202	Position of a gene on the chromosome is called	l its
-	A) Phenotype.	C) Junction.
	B) Locus.	D) Genotype.
Q.203	Pick the biotic component from the following.	
	A) Soil.	C) Atmosphere.
	B) Water.	D) Animals.
Q.204		to each other.
	A) Parallel.	C) Both A, B.
	B) Antiparallel.	D) None of these.
Q.205	Name the class without antennae.	
Q.205	A) Arachnida.	C) Insecta.
	B) Myriapoda.	D) Crustacea.
	b) Mynapoua.	D) Clusiacea.
Q.206	The African sleeping sickness is caused by	
Q.200	A) Entamoeba histolytica.	C) Zooflagellates.
	B) Trypanosoma.	D) Ciliates.
Q.207	Which of the following does not belong to ang	ospermic families?
-	A) Picea.	C) Rosaceae.
	B) Poaceae.	D) Fabaceae.
Q.208	Name the nutrition resulted by feeding on dea	
	A) Saprophytic.	C) Symbiotic.
	B) Parasitic.	D) Both B and C.
0 200	Have many any statitudes and he aliminate	d in forms of which and have 50 ml of water?
Q.209	How many grams of nitrogen can be eliminate	
	A) 20.	C) 30.
	B) 25.	D) 50.
Q.210	Which disease is caused by low calcium in the	blood?
Q.210	A) Tetany.	C) Muscle fatigue.
	B) Cramp.	D) Sciatica.
	b) cramp.	
Q.211	It is known that red lightflowering	g in the long day plants.
	A) Synchronizes.	C) Promotes.
	B) Inhibits.	D) Does not affect.
	•	-
Q.212	The colour phenotype of the grain is the sum o	f individual effects o <u>f</u> alleles.
	A) Six.	C) Four.
	B) Five.	D) Five or three.
Q.213	Inzone the light is insufficient to	
	A) Desert.	C) Littoral.
	B) Profundal.	D) All of these.

Page 1 0.214	6 of 16 The optimum temperature for enzym	es of human body is
<b>L</b>	A) 32 °F.	C) 313 K.
	B) 46 °C.	D) 37 ℃.
Q.215	Which of the following damages woo	den ships?
	A) Sepia.	C) Teredo.
	B) Limax.	D) Ostrea.
Q.216	Which of the following may build cora	al reefs along with coral animals?
	A) Myxomycota.	C) Green algae.
	B) Brown algae.	D) Red algae.
Q.217	Which of the following do not have a	body cavity?
	A) Pseudocoelomata.	C) Coelomata.
	B) Acoelomata.	D) None of these.
Q.218		rized by bouts of over eating of fattening foods.
	A) Bulimia nervosa.	C) Anorexia nervosa.
	B) Dyspepsia.	D) Salmonella.
Q.219	Which one of these is an example of t	tubular excretory system called metanephridia?
	A) Planaria.	C) Cockroach.
	B) Hydra.	D) Earthworm.
Q.220	Name the human tissues that contain	n about 85% water
-	A) Nerve cells.	C) Brain cells.
	B) Bone cells.	D) None of these.

### ALL TOPPER RECOMMEND UNIT WISE MDCAT PAST PAPERS BOOK 2008-2019

### THIS BOOK ONLY AVAILABLE ONLINE ON MBBS.COM.Pk

### **MBBS.COM.PK**

UHS MDCAT PAST PAPERS BOOK Hard Copy Available Now.



### University of Health Sciences, Lahore



Max. Marks: 1100

#### **ENTRANCE TEST - 2010** For F.Sc. Students Only **Time Allowed: 150 minutes**

#### Instructions:

Total MCQs: 220

- i. Read the instructions on the MCQs Response Form carefully.
- ii. Choose the **Single Best Answer** for each question.
- iii. Candidates are strictly prohibited from giving any identification mark except Roll No. & Signature in the specified columns only.

### **COMPULSORY QUESTION FOR IDENTIFICATION**

O-ID. What is the color of your Ouestion Paper?

B)

	Q-1D.	<b>A)</b> White.		<u>C) Pink.</u>		AE	B C	D
)		Fill the Circle	Correspondin	Paper is Pink. g to Letter `C' response form ram).	1 2 3 4			00000
			<u>PHYSI</u>	<u>CS</u>				
Q.1	<b>Whic</b> A) Gig B) Te		oower multiple?	C) Mega D) Deca				
Q.2		nit of charge is npere olt		C) Coulomb D) Calorie				
Q.3		electrical analog of ma ductance	<b>ass is electricity is</b> A) Capacitanc	e C) Charge D) Resistance				
Q.4	A) 1 v	ch one of the following wb m <sup>-2</sup> = N m <sup>-1</sup> A <sup>-1</sup> Tesla = 10 <sup>4</sup> Gausses	g relations is correct	C) 1 wb m <sup>-2</sup> = 1 Tesla D) All of these				
Q.5	A) 10	<b>time of electron in me</b> I <sup>-5</sup> sec I <sup>-3</sup> sec	tastable state is abo	<b>ut</b> C) 10 <sup>-8</sup> sec D) 10 <sup>-2</sup> sec				
Q.6	А) т =	<b>torque acting on a cur</b> = NIAB cos α = BIL sin α	rrent carrying coil is g	<b>given by</b> C) τ = NIAB sin α D) τ = BIL cos α	_			
Q.7	A) Co	grid in the cathode ray ontrols number of waves ontrols the brightness of s		C) Accelerates electrons D) Has positive potential	with respec	t to ca	thode	!

Page 2	of 17	
Q.8	The horizontal range of a projectile, at a certain	
	A) The angle of projection	C) The mass of the projectile
	B) The initial velocity of projection	D) Speed and mass of the projectile
<b>~ ^</b>	Tfuelecity is double then	
Q.9	If velocity is double, then. A) Momentum increase 4 times and K.E increases 2 ti	mes
	B) Momentum and K.E remain same	
	C) Momentum increases 2 times and K.E increase con	stant
	D) Momentum increases 2 times and K.E increases 4 t	
Q.10	The consumption of energy by 60-watt bulb in	
	A) 20 J	C) 30 J
	B) 120 J	D) 0.02 J
~	To have side on the base of the interview in the second bin of the	
Q.11	In transistors, the base region is very thin, of t A) 10 <sup>-5</sup> cm	C) 10 <sup>-6</sup> mm
	B) 10 <sup>-6</sup> m	D) 10 <sup>-6</sup> µm
	b) 10 m	
Q.12	The closed loop gain of OP-AMP depends on	
·	A) Internal structure of OP-AMP	C) Voltage of power supplies
	B) Externally connected resistances	D) Input resistance
Q.13	The net charge on an N-type substance is	
	A) 0.7 volts	C) 0.25 volts
	B) 0.3 volts	D) 0.07 volts
Q.14	The value of Wien's constant is	
Q.14	A) $2.90 \times 10^{-3} \text{ mK}$	C) 4.22 x 10 <sup>-7</sup> mK
	B) 3.34 x 10 <sup>-4</sup> mK	D) $3.42 \times 10^{-8} \text{ mK}$
	,	
Q.15	The minimum frequency below which no electr	
	A) High frequency	C) Threshold frequency
	B) Low frequency	D) Resonance frequency
0.16	In pair production, the type of photon used	
Q.16	A) α-particle	C) X-rays
	B) β-particle	D) $\gamma$ -radiations
		_,,,
Q.17	The life time of an electron in an excited state i	s about 10 <sup>-8</sup> s. What is its uncertainty in energy
	during this time?	
	A) 1.05 x 10 <sup>-41</sup> J	C) $1.15 \times 10^{10} \text{ J}$
	B) 1.05 x 10 <sup>-26</sup> J	D) 2.19 x 10 <sup>-40</sup> J
0.10	Valative of all always may in a first arbit of hud-	
Q.18	Velocity of electron moving in first orbit of hydr A) 2.19 x 10 <sup>7</sup> m/sec	C) 2.2 x 10 <sup>8</sup> m/sec
	B) 2.18 x 10 <sup>7</sup> m/sec	D) 2.19 x 10 <sup>6</sup> m/sec
	b) 2110 X 10 11/300	
Q.19	LASER is a potential energy source for inducing	which type of reaction?
	A) Radioactive	C) Ionization
	B) Fission	D) Fusion
Q.20	In the half-life of an element, the equation for the second	
	A) $\Delta N \propto -N\Delta t$	C) $\Delta N \propto -n\Delta t$
	B) $\Delta N = KN\Delta t$	$D) \Delta N = -\Delta N \Delta t$
Q.21	Decay constant ' $\lambda'$ is given as	
	$\Delta N/N$	Ν
	$ \begin{array}{l} A) = \frac{\Delta t}{\Delta t} \\ B) = \frac{\Delta N}{\Delta t} \end{array} $	C) - $\Delta t$
	ΔN	$\Delta N/N$
	B) - $\frac{1}{\Delta t}$	D) $\frac{\Delta N/N}{\Delta t}$

		Page 3 of 17
Q.22	The SI unit of absorbed dose `D' i.e. radiation	
-	A) kJ / mol	C) kg / J
	B) J / mol	D) J / kg
Q.23	The principle of homogeneity of dimensions	determines
<b>L</b>	A) Only variable in the equation	C) Correctness of an equation
	B) Only constant in the equation	D) Constant and variable in the equation
Q.24	For a body to be in complete equilibrium	
Q.27	A) Linear acceleration is zero	
	B) Angular acceleration is zero	
	C) Linear acceleration is zero but angular accelera	
	D) Linear acceleration and angular acceleration bo	ith should be zero
Q.25	If length of a spanner is `I' and a force `F' is a	applied on it to tighten a nut such that it passes
	through the pivot point, then torque is	
	A) Zero	C) Fl sin θ
	B) Ff	D) Fl sin θλ
Q.26	If a force of magnitude 8 N acts on a body in	direction making an angle 30, its x and y
	components will be	
	A) $F_x = 4\sqrt{3}$ and $F_y = 8$	C) $F_x = 4\sqrt{3}$ and $F_y = 4$
	B) $F_x = 8$ and $F_y = 4\sqrt{3}$	D) $F_x = 8\sqrt{3}$ and $F_y = 4$
0.27	The difference of a vector <sup>-</sup> B and its negative	vector D is
Q.27		C) Twice the magnitude of vector B
	A) A null vector	
	B) Equal to magnitude of vector B	D) Smaller than magnitude of vector B
Q.28	Time of projectile's flight is	
	$v_{i2} \sin^2 \theta$	vi <sup>2</sup> sin θ g
	A)	$C)_{V}^{2}$
	B) 2v <sub>i</sub> sin θ	$\frac{v}{g}$ i sin 20
	g	D) <sup>9</sup>
Q.29	If the velocity of the body changes by equal	amount in equal intervals of time, the body is said
Q.29	to have:	amount in equal intervals of time, the body is salu
	A) variable acceleration	C) uniform velocity
	B) uniform acceleration	D) negative acceleration
Q.30	In order to determine the maximum height of	of the projectile, the equation of motion used is
-	A) $aS = v_{f}^{2} - v_{f}^{2}$	of the projectile, the equation of motion used is C) $2S = a(v_f^2 - v_i^2)$
	B) $2aS = v_{f}^{f} - v_{f}^{2}$	D) aS = $2(v_f^2 - v_i^2)$
Q.31	If a force of 12 N acts on a car and changes r time during which this change occurs will be	ts momentum from 36 kgm/sec to 60 kgm/sec, the
	A) 24 sec	C) 12 sec
	B) 2 sec	D) 8 sec
Q.32	Which one of the following is a non-conserver A) Electric force	C) Gravitational force
	B) Elastic spring force	D) Frictional force
Q.33	Value of escape velocity for the surface of th moon is	e earth is 11 km/sec. Its value for surface of the
	A) 11 km/sec	C) 2.4 km/sec
	B) 10.4 km/sec	D) 4.3 km/sec
Q.34	On a clear day at noon, the intensity of solar A) 1.0 kWm <sup>-2</sup>	r energy reaching the earth's surface is about C) 1.0 Wm <sup>-2</sup>
	B) $1.4 \text{ kWm}^2$	D) 1.4 $Wm^{-2}$

B) 1.4 kWm<sup>-2</sup>

D) 1.4 Wm<sup>-2</sup>

Q.35	When a lift is accelerated upward, the appa A) Equal to its real weight B) Less than its real weight	rent weight of an object in it will be C) Zero D) Greater than its real weight
Q.36	The moment of inertial of a thin rod is	
-	1	$^{1}$
	A) $\frac{1}{2}$ mL <sub>2</sub>	$ \begin{array}{c} C \end{pmatrix} \frac{1}{12} \text{ mL} \\ D \end{pmatrix} \frac{1}{12} \text{ mL}_{2} \end{array} $
	B) <sup>1</sup>	$\frac{1}{2}$
	$^{\rm B}$ $^{\rm H}_{\rm 3}$ $^{\rm L}$	$^{\rm D}$ 12 $^{\rm mL}_{2}$
Q.37	A wheel of radius 1 m covers an angular dis	placement of 180. Its linear displacement is
	A) 3.14 m	C) 6.28 m
	B) π rad	D) 0.157 m
Q.38	Conservation of mass of fluid flow leads to	
<b>4</b> .00	A) Bernoulli's equation	C) Equation of motion
	B) Venturi meter	D) Equation of continuity
0.00	The black was also allowed when	
Q.39	The blood vessels collapse when A) External pressure applied becomes greater that	in the systolic pressure
	B) External pressure applied becomes greater that B) External pressure applied is equal to systolic p	
	C) External pressure applied is less than the system	
	D) External pressure applied is zero	
Q.40	An oscillating body is at mean position at t $:$	-0 Att $-T/4$ it will be at
Q.40	A) Extreme position	C) Between extreme and mean position
	B) Mean position	D) Beyond extreme position
Q.41	In a simple pendulum, the tension of the st	
	A) g cos θ B) mg sin θ	C) mg cos θ D) mg
	b) mg sin o	D) ng
Q.42		des are moving in the same direction are out of
	phase. The amplitude of the resultant wave	
	A) Zero amplitude	C) Difference of the amplitudes of the two waves
	B) The sum of amplitude of the two waves	D) Double the amplitude of either wave
Q.43	A source 'Y' of unknown frequency produces	4 beats with a source of 240 Hz and 8 beats with
	sound of 252 Hz. Frequency of the source 'Y	″ is
	A) 244 Hz	C) 248 Hz
	B) 236 Hz	D) 246 Hz
Q.44	An organ pipe closed at one end has a lengt	h of 25 cm. Wavelength of the fundamental note i
<b>L</b>	A) 25 cm	C) 100 cm
	B) 50 cm	D) 75 cm
0 45	In Nouton ring apparatus, at the paint of an	stact of the long and glass plate the additional an
Q.45	difference introduced is	ntact of the lens and glass plate, the additional pa
	A) $\lambda/4$	C) λ
	B) λ/2	D) λ/3
		· ·
Q.46	The path difference 'BD' for destructive interval $A_{1}(m + 16)$	
	A) (m + ½) λ B) mλ	C) d sin θ D) 3λ
Q.47		resolving power `R' of the grating is defined as
	Α) λ / Δλ	C) $\lambda / \lambda_1$
	B) λ / D	D) N x m
0,48	Which one of the following lights travels face	stest in optical fibers?
Q.48	Which one of the following lights travels fas A) Visible light	stest in optical fibers? C) Ordinary light

<b>•</b> • •		Page 5 of 17
Q.49	<b>The value of universal gas constant is</b> A) 8.314 Jmol <sup>-1</sup> K <sup>-1</sup> B) 8.324 Jmol <sup>-1</sup> K <sup>-1</sup>	C) 7.23 Jmol <sup>-1</sup> K <sup>-1</sup> D) 1.00 Jmol <sup>-1</sup> K <sup>-1</sup>
Q.50	The turbine in a steam power plant takes stean temperature reservoir at 77 °C. What is the ma A) 50% B) 40%	n from a boiler at 427 °C and exhausts into a low aximum possible efficiency? C) 60% D) 70%
Q.51	<ul> <li>Which one of the following is a postulate of kin</li> <li>A) Molecules do not exert force on each other</li> <li>B) The size of molecules is much larger than separat</li> <li>C) A finite volume of gas consists of a very small num</li> <li>D) The gas molecules are not in random motion</li> </ul>	ion between the molecules
Q.52	Which one is not an irreversible process? A) Slow compression of a gas into a cylinder B) Changes due to friction	C) Explosion D) Dissipation of energy
Q.53	<b>Electric intensity is a vector quantity and its di</b> A) Perpendicular to the direction of field B) Opposite to the direction of force	rection is C) At a certain angle D) Along the direction of force
Q.54	The magnitude of an electric field between two relation	o separat <mark>ed plates can be calculated by the</mark>
	A) $\Delta V = Ed$	C) $\Delta V = \frac{E}{\Delta V}$ D) E = $\frac{d^{q_o}}{\Delta V}$
	B) $\Delta V = E/d$	D) E = $\frac{d^{4}}{\Delta V}$
Q.55	SI unit of electric flux is A) NmC <sup>-1</sup> B) Nm <sup>-2</sup> C <sup>-2</sup>	C) Nm <sup>2</sup> C <sup>-2</sup> D) Nm <sup>2</sup> C <sup>-2</sup>
Q.56	The equivalent current which passes from a popotential as if it represented a movement of popotential current A) Electronic current B) Electric current	
Q.57	If `V' is applied potential difference across a res time is	sistance `R', then loss in potential energy per unit
	A) VI	C) $\frac{V^2}{V}$
	B) I <sup>2</sup> R	R D) All of the above
Q.58	The substances like germanium and silicon have A) Negative temperature coefficients B) Positive temperature coefficients	<ul> <li><i>re</i></li> <li>C) Both A and B</li> <li>D) None of the above</li> </ul>
Q.59	The sensitivity of a galvanometer can be decre	
	A) Increasing magnetic field	C) Increasing $\frac{c}{BAN}$ Ration
	B) Increasing number of turns of the coil	D) Decreasing length of couple 'c'
Q.60	Force on a current carrying conductor in a unif A) F = NIA cos $\alpha$ B) F = $\mu$ nI	<b>form magnetic field is</b> C) F = ILB sin α D) F = ILA cos α
	<u>CHEMIS</u>	TRY

In an electrochemical series, standard electrode potentials are arranged on the basis of:A) pH scaleC) Hydrogen ScaleB) pOH scaleD) pKa scale Q.61

	The reaction which is responsible for the	
	A) Hydrolysis reaction B) Oxidation reaction	C) Redox reaction D) Reduction reaction
Q.63	Glucose is converted into ethanol by the	
-	A) Urease	C) Sucrase
	B) Invertase	D) Zymase
Q.64	The rate of reaction involving ions can be	
	A) Dilatometric	C) Optical rotation
	B) Refractometric	D) Electrical conductivity
Q.65	When one mole of gaseous hydrogen ions solution, the amount of heat liberated is	s are dissolved in water to form an infinitely d <mark>i</mark> lute
	A) -1891 kJmol <sup>-1</sup>	C) -499 kJmol <sup>-1</sup>
	B) -1075 kJmol <sup>-1</sup>	D) -1562 kJmol <sup>-1</sup>
Q.66	Energy required to remove an electron fr	om the outermost shell of its isolated gaseous atom in
Q.00	the ground state is	
	A) Electron affinity	C) Ionization energy
	B) Lattice energy	D) Crystal energy
	,	
Q.67	Which of the following carbonates of alkal on heating to its oxide along with liberati	i metals is not stable towards heat and is decomposed on of CO <sub>2</sub> ?
	A) Li <sub>2</sub> CO <sub>3</sub>	C) K2CO3
	B) Mg <sub>2</sub> CO <sub>3</sub>	D) Na <sub>2</sub> CO <sub>3</sub>
Q.68	of calcium appears to stimulate the devel	
	A) Leaves	C) Root hairs
	B) Fruits	D) Branches
Q.69	Which of the following sulphates is not so	
	A) Sodium Sulphate	C) Potassium Sulphate
	B) Barium Sulphate	D) Zinc Sulphate
Q.70	The trend in the densities of elements of	Group III-A of the Periodic Table is
	A) A gradual increase	
	A) A gradual increase	C) First decrease then increase
	B) A gradual decrease	C) First decrease then increase D) First increase then decrease
0.71	B) A gradual decrease	D) First increase then decrease
Q.71	<ul><li>B) A gradual decrease</li><li>White lead has one of the following properties</li></ul>	D) First increase then decrease
Q.71	<ul> <li>B) A gradual decrease</li> <li>White lead has one of the following property</li> <li>A) Acidic</li> </ul>	D) First increase then decrease erties C) Amorphous
-	<ul> <li>B) A gradual decrease</li> <li>White lead has one of the following properties</li> <li>A) Acidic</li> <li>B) Crystalline</li> </ul>	D) First increase then decrease erties C) Amorphous D) Neutral
-	<ul> <li>B) A gradual decrease</li> <li>White lead has one of the following properties</li> <li>A) Acidic</li> <li>B) Crystalline</li> <li>The strongest acid among the following is</li> </ul>	D) First increase then decrease C) Amorphous D) Neutral
-	<ul> <li>B) A gradual decrease</li> <li>White lead has one of the following properation of the following properation of the following properation of the following properation of the following is A) HF</li> </ul>	D) First increase then decrease C) Amorphous D) Neutral s C) HCl
-	<ul> <li>B) A gradual decrease</li> <li>White lead has one of the following properties</li> <li>A) Acidic</li> <li>B) Crystalline</li> <li>The strongest acid among the following is</li> </ul>	D) First increase then decrease C) Amorphous D) Neutral
Q.72	<ul> <li>B) A gradual decrease</li> <li>White lead has one of the following properation of the following properation of the following properation of the following properation of the following is a straight of the strongest acid among the following is a here a strong of the following is a here a strong of the following is a strong of the following of the following is a strong of the following is a strong of the following of the following is a strong of the following of th</li></ul>	D) First increase then decrease C) Amorphous D) Neutral C) HCl D) HBr D) HBr
Q.72	<ul> <li>B) A gradual decrease</li> <li>White lead has one of the following properties of the following properties (a) Acidic</li> <li>B) Crystalline</li> <li>The strongest acid among the following is (b) HF</li> <li>B) HI</li> <li>The noble gas which is used in radiotheration (b) Radon</li> </ul>	D) First increase then decrease C) Amorphous D) Neutral C) HCl D) HBr Ppy of cancer is C) Krypton
Q.72	<ul> <li>B) A gradual decrease</li> <li>White lead has one of the following properation of the following properation of the following properation of the following properation of the following is a straight of the strongest acid among the following is a here a strong of the following is a here a strong of the following is a strong of the following of the following is a strong of the following is a strong of the following of the following is a strong of the following of th</li></ul>	D) First increase then decrease C) Amorphous D) Neutral C) HCl D) HBr D) HBr
Q.72 Q.73	<ul> <li>B) A gradual decrease</li> <li>White lead has one of the following properties of the following properties (a) Acidic</li> <li>B) Crystalline</li> <li>The strongest acid among the following is (b) HF</li> <li>B) HI</li> <li>The noble gas which is used in radiotheration (b) Radon</li> </ul>	D) First increase then decrease C) Amorphous D) Neutral C) HCl D) HBr D) HBr D) HBr D) HBr D) Argon
Q.72 Q.73	<ul> <li>B) A gradual decrease</li> <li>White lead has one of the following properation of the followin</li></ul>	D) First increase then decrease C) Amorphous D) Neutral C) HCl D) HBr D) HBr D) HBr D) Argon T molecule is due to presence of
Q.72 Q.73	<ul> <li>B) A gradual decrease</li> <li>White lead has one of the following properation of the followin</li></ul>	D) First increase then decrease C) Amorphous D) Neutral C) HCl D) HBr D) HBr D) HBr D) Argon T molecule is due to presence of C) Protons
Q.71 Q.72 Q.73 Q.74	<ul> <li>B) A gradual decrease</li> <li>White lead has one of the following properation of the following properation of the following properation of the following is an experiment of the following is an experim</li></ul>	D) First increase then decrease C) Amorphous D) Neutral C) HCl D) HBr D) HBr D) HBr D) Argon T molecule is due to presence of C) Protons D) Neutrons
Q.72 Q.73 Q.74	<ul> <li>B) A gradual decrease</li> <li>White lead has one of the following properation of the following properation of the strongest acid among the following is A) HF</li> <li>B) HI</li> <li>The noble gas which is used in radiotheration of A) Radon</li> <li>B) Xenon</li> <li>Paramagnetic behavior of an atom, ion of A) Unpaired electrons</li> <li>B) Paired electrons</li> <li>B) Paired electrons</li> <li>The geometry of the complexes depends shell of the central metal atom</li> </ul>	D) First increase then decrease C) Amorphous D) Neutral C) HCl D) HBr D) HBr D) HBr D) HBr D) Argon r molecule is due to presence of C) Protons D) Neutrons upon the type oftaking place in the valence
Q.72 Q.73 Q.74	<ul> <li>B) A gradual decrease</li> <li>White lead has one of the following properation of the following properation of the following properation of the strongest acid among the following is A) HF</li> <li>B) HI</li> <li>The noble gas which is used in radiotheration of A) Radon</li> <li>B) Xenon</li> <li>Paramagnetic behavior of an atom, ion of A) Unpaired electrons</li> <li>B) Paired electrons</li> <li>The geometry of the complexes depends</li> </ul>	D) First increase then decrease C) Amorphous D) Neutral C) HCl D) HBr D) HBr D) HBr D) Argon T molecule is due to presence of C) Protons D) Neutrons
Q.72 Q.73	<ul> <li>B) A gradual decrease</li> <li>White lead has one of the following properation of the following properation of the strongest acid among the following is A) HF</li> <li>B) HI</li> <li>The noble gas which is used in radiotheration of A) Radon</li> <li>B) Xenon</li> <li>Paramagnetic behavior of an atom, ion of A) Unpaired electrons</li> <li>B) Paired electrons</li> <li>B) Paired electrons</li> <li>The geometry of the complexes depends shell of the central metal atom</li> </ul>	D) First increase then decrease C) Amorphous D) Neutral C) HCl D) HBr D) HBr D) HBr D) Argon r molecule is due to presence of C) Protons D) Neutrons upon the type oftaking place in the valence
Q.72 Q.73 Q.74 Q.75	<ul> <li>B) A gradual decrease</li> <li>White lead has one of the following properation of the following properation of the strongest acid among the following is A) HF</li> <li>B) HI</li> <li>The noble gas which is used in radiotheration of A) Radon</li> <li>B) Xenon</li> <li>Paramagnetic behavior of an atom, ion of A) Unpaired electrons</li> <li>B) Paired electrons</li> <li>B) Poired electrons</li> </ul>	D) First increase then decrease C) Amorphous D) Neutral C) HCl D) HBr D) HBr D) HBr D) Argon r molecule is due to presence of C) Protons D) Neutrons upon the type oftaking place in the valence C) Deprotonation
Q.72 Q.73 Q.74	<ul> <li>B) A gradual decrease</li> <li>White lead has one of the following properation of the following properation of the strongest acid among the following is A) HF</li> <li>B) HI</li> <li>The noble gas which is used in radiotheration of A) Radon</li> <li>B) Xenon</li> <li>Paramagnetic behavior of an atom, ion of A) Unpaired electrons</li> <li>B) Paired electrons</li> <li>B) Paired electrons</li> <li>The geometry of the complexes depends shell of the central metal atom A) Hybridization</li> </ul>	D) First increase then decrease C) Amorphous D) Neutral C) HCl D) HBr D) HBr D) HBr D) Argon r molecule is due to presence of C) Protons D) Neutrons upon the type oftaking place in the valence C) Deprotonation

Q.77	A gasoline of higher octane number can be ob A) Oxidative cleavage B) Thermal cracking	C) Catalytic cracking D) Steam cracking
Q.78	<b>Ethyne molecule is formed when two carbon</b> A) sp-s overlap B) sp <sup>3</sup> -sp <sup>3</sup> overlap	atoms joined together to form a sigma bond by C) 2py-2py overlap D) sp-sp overlap
Q.79	<b>Symmetrical alkanes can be produced by</b> A) Sabatier Sender's Reaction B) Hydrogenolysis Reaction	C) Reduction Reaction D) Kolbe's Electrolytic Reaction
Q.80	<b>The catalyst used for the preparation of acryl</b> A) Cu <sub>2</sub> Cl <sub>2</sub> and NH <sub>4</sub> Cl B) Al <sub>2</sub> O <sub>3</sub> and NH <sub>4</sub> Cl	C) Cu <sub>2</sub> Cl <sub>2</sub> and NH <sub>4</sub> OH D) Cu <sub>2</sub> Cl <sub>2</sub> and Al <sub>2</sub> O <sub>3</sub>
Q.81	When a hydrogen atom is removed from benz A) Alkyl group B) Phenyl group	ene, the group left behind is called C) Benzyl group D) Methyl group
Q.82	The introduction of NO <sub>2</sub> group in benzene ring takes place when it is heated with a 1:1 mixtu A) Conc. HNO <sub>3</sub> and conc. HCl B) Conc. HNO <sub>3</sub> and conc. Acetic acid	
Q.83	<b>During S<sub>N</sub>2 reactions, configuration of the alk</b> A) Gets inverted B) Remains same	<b>/I halide molecule:</b> C) Depends upon the carbon atom D) Depends upon the electronegativity of halide
Q.84	Grignard reagents are prepared by the reaction presence of A) Dry Ether B) Sodium Lead Alloy	n of magnesium metal with alkyl halides in the C) Alcohol D) Water
Q.85	Methanol is prepared from carbon monoxide a A) ZnO + CoO <sub>2</sub> B) ZnO + CuO	C) ZnO + Ag2O D) Cr2O3 + ZnO
Q.86	Ethanol reacts with Ammonia to produce ethy A) ZnCl <sub>2</sub> B) ThO <sub>2</sub>	I amine, the catalyst is C) C <sub>6</sub> H <sub>5</sub> N D) Cr <sub>2</sub> O <sub>3</sub>
Q.87	Dissociation constant of phenol is A) $1.2 \times 10^{-10}$ B) $1.2 \times 10^{10}$	C) 1.3 x 10 <sup>10</sup> D) 1.3 x 10 <sup>-10</sup>
Q.88	Dry distillation of a mixture of calcium salts of formation of A) Formaldehyde B) Acetaldehyde	f <b>formic acid and acetic acid results into the</b> C) Calcium acetate D) Sodium acetate
Q.89	<b>Hydrolysis of cyano group by an aqueous acid</b> A) Carboxylic Acid B) Acid Amide	l <b>results into</b> C) Cyanohydride D) Formaldehyde
Q.90	<b>Brick red precipitates are formed when aldeh</b> A) Sodium borohydride B) Sodium bisulphite	<b>ydes react with</b> C) Sodium nitroprusside D) Fehling's solution
Q.91	<b>The nature of the amino acid 'lysine' is</b> A) Neutral B) Acidic	C) Amphoteric D) Basic

	carbonate will produce carbon dioxide gas? A) H <sub>3</sub> C-COO-C <sub>2</sub> H <sub>5</sub>	orm of aqueous solution, on reaction with sodiun C) H <sub>3</sub> C <sub>2</sub> -CO-OH
	B) H <sub>3</sub> C <sub>2</sub> -COO-CH <sub>3</sub>	D) H <sub>3</sub> C <sub>2</sub> -COO-C <sub>2</sub> H <sub>5</sub>
Q.93	Collagen and albumin are	
	A) Simple proteins	C) Polyamides
	B) Derived proteins	D) Polysaccharides
Q.94	Urea is produced by the reaction of liquid a	mmonia with
	A) CO <sub>2</sub>	C) CaO
	B) CO	D) C
Q.95	The calcium sulpho-aluminate is	
	A) Co.Al2O3.3CaSO4.6H2O	C) 3Ca.Al2O3.3CaSO4.2H2O
	B) 3Ca.Al2O3.CaSO4.2H2O	D) 3Ca.Al2O3.3CaSO4.6H2O
Q.96	The coagulant used in raw water to precipi	tate suspended impurities is
-	A) Caustic soda	C) Alum
	B) Lime water	D) Soda ash
Q.97	The whiteness of the recycled newspaper is	s improved by treating it with:
-	A) Sodium hydroxide	C) Super oxides
	B) Per oxides	D) Normal oxides
Q.98	One mole of any gas at standard temperatu	ire and pressure (STP) occupies a volume of
	A) 20.414 dm <sup>3</sup>	C) 22.414 cm <sup>3</sup>
	B) 22.414 dm <sup>3</sup>	D) 23.414 dm <sup>3</sup>
Q.99	The relative abundance of the isotopes of t	he elements can be determined by:
-	A) Mass Spectrometry	C) Chromatography
	B) X-rays	D) Solvent Extraction
Q.100		
Q.100	If we are given the mass of one subs <mark>tance,</mark> vice a versa with the help of balanced chem	
Q.100	vice a versa with the help of balanced chem A) Mass-mass relationship	ical equation. This is called C) Mole-volume relationship
Q.100	vice a versa with the help of balanced chem	ical equation. This is called
-	vice a versa with the help of balanced chem A) Mass-mass relationship	ical equation. This is called C) Mole-volume relationship D) Mass-volume relationship
Q.100 Q.101	<ul><li>vice a versa with the help of balanced chem</li><li>A) Mass-mass relationship</li><li>B) Mass-mole relationship</li></ul>	ical equation. This is called C) Mole-volume relationship D) Mass-volume relationship
-	vice a versa with the help of balanced chem A) Mass-mass relationship B) Mass-mole relationship Sublimation is used to purify	ical equation. This is called C) Mole-volume relationship
-	<ul> <li>vice a versa with the help of balanced chem</li> <li>A) Mass-mass relationship</li> <li>B) Mass-mole relationship</li> <li>Sublimation is used to purify</li> <li>A) Ammonium sulphate</li> </ul>	<ul> <li>C) Mole-volume relationship</li> <li>D) Mass-volume relationship</li> <li>C) Benzoic acid</li> <li>D) Lead carbonate</li> </ul>
Q.101	<ul> <li>vice a versa with the help of balanced chem</li> <li>A) Mass-mass relationship</li> <li>B) Mass-mole relationship</li> <li>Sublimation is used to purify</li> <li>A) Ammonium sulphate</li> <li>B) Sodium chloride</li> </ul>	<ul> <li>C) Mole-volume relationship</li> <li>D) Mass-volume relationship</li> <li>C) Benzoic acid</li> <li>D) Lead carbonate</li> </ul>
Q.101	<ul> <li>vice a versa with the help of balanced chem</li> <li>A) Mass-mass relationship</li> <li>B) Mass-mole relationship</li> <li>Sublimation is used to purify</li> <li>A) Ammonium sulphate</li> <li>B) Sodium chloride</li> <li>The purity of a substance can be identified</li> </ul>	<ul> <li>ical equation. This is called</li> <li>C) Mole-volume relationship</li> <li>D) Mass-volume relationship</li> <li>C) Benzoic acid</li> <li>D) Lead carbonate</li> </ul>
Q.101 Q.102	<ul> <li>vice a versa with the help of balanced chem</li> <li>A) Mass-mass relationship</li> <li>B) Mass-mole relationship</li> <li>Sublimation is used to purify</li> <li>A) Ammonium sulphate</li> <li>B) Sodium chloride</li> <li>The purity of a substance can be identified</li> <li>A) Sublimation</li> <li>B) Filtration</li> <li>Which one of the following mathematical explanation</li> </ul>	<ul> <li>ical equation. This is called</li> <li>C) Mole-volume relationship</li> <li>D) Mass-volume relationship</li> <li>C) Benzoic acid</li> <li>D) Lead carbonate</li> <li>by</li> <li>C) Chromatography</li> <li>D) Solvent extraction</li> </ul>
Q.101	<ul> <li>vice a versa with the help of balanced chem</li> <li>A) Mass-mass relationship</li> <li>B) Mass-mole relationship</li> <li>Sublimation is used to purify</li> <li>A) Ammonium sulphate</li> <li>B) Sodium chloride</li> <li>The purity of a substance can be identified</li> <li>A) Sublimation</li> <li>B) Filtration</li> <li>Which one of the following mathematical example</li> <li>A) V = R —</li> </ul>	<ul> <li>A c) Mole-volume relationship</li> <li>D) Mass-volume relationship</li> <li>C) Benzoic acid</li> <li>D) Lead carbonate</li> <li>D) Lead carbonate</li> <li>C) Chromatography</li> <li>D) Solvent extraction</li> <li>A compressions represents the Avogadro's law?</li> </ul>
Q.101 Q.102	<ul> <li>vice a versa with the help of balanced chem</li> <li>A) Mass-mass relationship</li> <li>B) Mass-mole relationship</li> <li>Sublimation is used to purify</li> <li>A) Ammonium sulphate</li> <li>B) Sodium chloride</li> <li>The purity of a substance can be identified</li> <li>A) Sublimation</li> <li>B) Filtration</li> <li>Which one of the following mathematical example</li> <li>A) V = R —</li> </ul>	Fical equation. This is called C) Mole-volume relationship D) Mass-volume relationship C) Benzoic acid D) Lead carbonate by C) Chromatography D) Solvent extraction cpressions represents the Avogadro's law? C) $V = R \frac{P}{nT}$ (when 'P' and 'n' are constant)
Q.101 Q.102	<ul> <li>vice a versa with the help of balanced chem</li> <li>A) Mass-mass relationship</li> <li>B) Mass-mole relationship</li> <li>Sublimation is used to purify</li> <li>A) Ammonium sulphate</li> <li>B) Sodium chloride</li> <li>The purity of a substance can be identified</li> <li>A) Sublimation</li> <li>B) Filtration</li> <li>Which one of the following mathematical examples</li> <li>A) W= R</li> </ul>	<ul> <li>A c) Mole-volume relationship</li> <li>D) Mass-volume relationship</li> <li>C) Benzoic acid</li> <li>D) Lead carbonate</li> <li>by</li> <li>C) Chromatography</li> <li>D) Solvent extraction</li> <li>c) R represents the Avogadro's law?</li> <li>P</li> <li>C) V = R nT (when 'P' and 'n' are constant)</li> <li>nT</li> </ul>
Q.101 Q.102	vice a versa with the help of balanced cheme A) Mass-mass relationship B) Mass-mole relationship Sublimation is used to purify A) Ammonium sulphate B) Sodium chloride The purity of a substance can be identified A) Sublimation B) Filtration Which one of the following mathematical exits A) $V = R - \frac{nT}{p}$ (when 'T' and 'n' are constant)	Fical equation. This is called C) Mole-volume relationship D) Mass-volume relationship C) Benzoic acid D) Lead carbonate by C) Chromatography D) Solvent extraction cpressions represents the Avogadro's law? C) $V = R \frac{P}{nT}$ (when 'P' and 'n' are constant)
Q.101 Q.102 Q.103	vice a versa with the help of balanced cheme A) Mass-mass relationship B) Mass-mole relationship Sublimation is used to purify A) Ammonium sulphate B) Sodium chloride The purity of a substance can be identified A) Sublimation B) Filtration Which one of the following mathematical est A) $V = R - \frac{nT}{p}$ (when 'T' and 'n' are constant) nT B) $V = R - p$ (when 'P', 'T' and 'n' are constant)	<b>ical equation. This is called</b> C) Mole-volume relationship D) Mass-volume relationship C) Benzoic acid D) Lead carbonate <b>by</b> C) Chromatography D) Solvent extraction <b>transformeresents the Avogadro's law?</b> C) $V = R \frac{P}{nT}$ (when 'P' and 'n' are constant) D) $V = R \frac{nT}{P}$ (when 'P' and 'T' are constant)
Q.101 Q.102	vice a versa with the help of balanced cheme A) Mass-mass relationship B) Mass-mole relationship Sublimation is used to purify A) Ammonium sulphate B) Sodium chloride The purity of a substance can be identified A) Sublimation B) Filtration Which one of the following mathematical exits A) $V = R - \frac{nT}{p}$ (when 'T' and 'n' are constant) nT B) $V = R - p$ (when 'P', 'T' and 'n' are constant) The root mean square velocity of gases is in	Fical equation. This is called C) Mole-volume relationship D) Mass-volume relationship C) Benzoic acid D) Lead carbonate by C) Chromatography D) Solvent extraction cpressions represents the Avogadro's law? C) $V = R \frac{P}{nT}$ (when 'P' and 'n' are constant) D) $V = R \frac{nT}{P}$ (when 'P' and 'T' are constant) hversely proportional to the square root of their
Q.101 Q.102 Q.103	<ul> <li>vice a versa with the help of balanced cheme</li> <li>A) Mass-mass relationship</li> <li>B) Mass-mole relationship</li> <li>Sublimation is used to purify</li> <li>A) Ammonium sulphate</li> <li>B) Sodium chloride</li> <li>The purity of a substance can be identified</li> <li>A) Sublimation</li> <li>B) Filtration</li> <li>Which one of the following mathematical examples</li> <li>A) V = R - P (when 'T' and 'n' are constant)</li> <li>nT</li> <li>B) V = R - P (when 'P', 'T' and 'n' are constant)</li> <li>The root mean square velocity of gases is in A) Molar mass</li> </ul>	Fical equation. This is called C) Mole-volume relationship D) Mass-volume relationship C) Benzoic acid D) Lead carbonate by C) Chromatography D) Solvent extraction cpressions represents the Avogadro's law? C) $V = R \frac{P}{nT}$ (when 'P' and 'n' are constant) D) $V = R \frac{nT}{P}$ (when 'P' and 'T' are constant) hversely proportional to the square root of their C) Pressure
Q.101 Q.102 Q.103	vice a versa with the help of balanced cheme A) Mass-mass relationship B) Mass-mole relationship Sublimation is used to purify A) Ammonium sulphate B) Sodium chloride The purity of a substance can be identified A) Sublimation B) Filtration Which one of the following mathematical exits A) $V = R - \frac{nT}{p}$ (when 'T' and 'n' are constant) nT B) $V = R - p$ (when 'P', 'T' and 'n' are constant) The root mean square velocity of gases is in	Fical equation. This is called C) Mole-volume relationship D) Mass-volume relationship C) Benzoic acid D) Lead carbonate by C) Chromatography D) Solvent extraction cpressions represents the Avogadro's law? C) $V = R \frac{P}{nT}$ (when 'P' and 'n' are constant) D) $V = R \frac{nT}{P}$ (when 'P' and 'T' are constant) hversely proportional to the square root of their
Q.101 Q.102 Q.103	<ul> <li>vice a versa with the help of balanced cheme</li> <li>A) Mass-mass relationship</li> <li>B) Mass-mole relationship</li> <li>Sublimation is used to purify</li> <li>A) Ammonium sulphate</li> <li>B) Sodium chloride</li> <li>The purity of a substance can be identified</li> <li>A) Sublimation</li> <li>B) Filtration</li> <li>Which one of the following mathematical extension</li> <li>A) V = R nT</li> <li>P (when 'T' and 'n' are constant)</li> <li>nT</li> <li>B) V = R P (when 'P', 'T' and 'n' are constant)</li> <li>The root mean square velocity of gases is in</li> <li>A) Molar mass</li> <li>B) Temperature</li> <li>Plasma is the ionized gas mixture which communication</li> </ul>	<b>ical equation. This is called</b> C) Mole-volume relationship D) Mass-volume relationship C) Benzoic acid D) Lead carbonate <b>by</b> C) Chromatography D) Solvent extraction <b>c)</b> Ver R $\frac{P}{nT}$ (when 'P' and 'n' are constant) C) V = R $\frac{nT}{P}$ (when 'P' and 'n' are constant) D) V = R $\frac{nT}{P}$ (when 'P' and 'T' are constant) <b>nversely proportional to the square root of their</b> C) Pressure D) Volume <b>nsists of</b>
Q.101 Q.102 Q.103 Q.104	<ul> <li>vice a versa with the help of balanced cheme</li> <li>A) Mass-mass relationship</li> <li>B) Mass-mole relationship</li> <li>Sublimation is used to purify</li> <li>A) Ammonium sulphate</li> <li>B) Sodium chloride</li> <li>The purity of a substance can be identified</li> <li>A) Sublimation</li> <li>B) Filtration</li> <li>Which one of the following mathematical examples</li> <li>A) V = R - (when 'T' and 'n' are constant)</li> <li>nT</li> <li>B) V = R - (when 'P', 'T' and 'n' are constant)</li> <li>The root mean square velocity of gases is in</li> <li>A) Molar mass</li> <li>B) Temperature</li> <li>Plasma is the ionized gas mixture which co</li> <li>A) Ions and electrons</li> </ul>	<b>ical equation. This is called</b> C) Mole-volume relationship D) Mass-volume relationship C) Benzoic acid D) Lead carbonate <b>by</b> C) Chromatography D) Solvent extraction <b>cpressions represents the Avogadro's law?</b> C) $V = R \frac{P}{nT}$ (when 'P' and 'n' are constant) D) $V = R \frac{nT}{P}$ (when 'P' and 'n' are constant) <b>nversely proportional to the square root of their</b> C) Pressure D) Volume <b>nsists of</b> C) Electrons, ions and neutral atoms
Q.101 Q.102 Q.103 Q.104	<ul> <li>vice a versa with the help of balanced cheme</li> <li>A) Mass-mass relationship</li> <li>B) Mass-mole relationship</li> <li>Sublimation is used to purify</li> <li>A) Ammonium sulphate</li> <li>B) Sodium chloride</li> <li>The purity of a substance can be identified</li> <li>A) Sublimation</li> <li>B) Filtration</li> <li>Which one of the following mathematical extension</li> <li>A) V = R nT</li> <li>P (when 'T' and 'n' are constant)</li> <li>nT</li> <li>B) V = R P (when 'P', 'T' and 'n' are constant)</li> <li>The root mean square velocity of gases is in</li> <li>A) Molar mass</li> <li>B) Temperature</li> <li>Plasma is the ionized gas mixture which communication</li> </ul>	<b>ical equation. This is called</b> C) Mole-volume relationship D) Mass-volume relationship C) Benzoic acid D) Lead carbonate <b>by</b> C) Chromatography D) Solvent extraction <b>c)</b> Ver R $\frac{P}{nT}$ (when 'P' and 'n' are constant) C) V = R $\frac{nT}{P}$ (when 'P' and 'n' are constant) D) V = R $\frac{nT}{P}$ (when 'P' and 'T' are constant) <b>nversely proportional to the square root of their</b> C) Pressure D) Volume <b>nsists of</b>
Q.101 Q.102 Q.103 Q.104	<ul> <li>vice a versa with the help of balanced chem</li> <li>A) Mass-mass relationship</li> <li>B) Mass-mole relationship</li> <li>Sublimation is used to purify</li> <li>A) Ammonium sulphate</li> <li>B) Sodium chloride</li> <li>The purity of a substance can be identified</li> <li>A) Sublimation</li> <li>B) Filtration</li> <li>Which one of the following mathematical ex</li> <li>A) V = R — <ul> <li>mT</li> <li>P (when 'T' and 'n' are constant)</li> <li>mT</li> </ul> </li> <li>B) V = R — <ul> <li>(when 'P', 'T' and 'n' are constant)</li> <li>The root mean square velocity of gases is in</li> <li>A) Molar mass</li> <li>B) Temperature</li> </ul> </li> <li>Plasma is the ionized gas mixture which co</li> <li>A) Ions and electrons</li> <li>B) Electrons and neutral atoms</li> </ul>	C) Mole-volume relationship D) Mass-volume relationship C) Benzoic acid D) Lead carbonate by C) Chromatography D) Solvent extraction cpressions represents the Avogadro's law? P C) $V = R \frac{P}{nT}$ (when 'P' and 'n' are constant) D) $V = R \frac{nT}{P}$ (when 'P' and 'T' are constant) nversely proportional to the square root of their: C) Pressure D) Volume nsists of C) Electrons, ions and neutral atoms D) Ions and neutral atoms
Q.101 Q.102 Q.103 Q.104 Q.105	<ul> <li>vice a versa with the help of balanced cheme</li> <li>A) Mass-mass relationship</li> <li>B) Mass-mole relationship</li> <li>Sublimation is used to purify</li> <li>A) Ammonium sulphate</li> <li>B) Sodium chloride</li> <li>The purity of a substance can be identified</li> <li>A) Sublimation</li> <li>B) Filtration</li> <li>Which one of the following mathematical examples</li> <li>A) V = R — (when 'T' and 'n' are constant)</li> <li>nT</li> <li>B) V = R — (when 'P', 'T' and 'n' are constant)</li> <li>The root mean square velocity of gases is in</li> <li>A) Molar mass</li> <li>B) Temperature</li> <li>Plasma is the ionized gas mixture which co</li> <li>A) Ions and electrons</li> <li>B) Electrons and neutral atoms</li> </ul>	<b>ical equation. This is called</b> C) Mole-volume relationship D) Mass-volume relationship C) Benzoic acid D) Lead carbonate <b>by</b> C) Chromatography D) Solvent extraction <b>cpressions represents the Avogadro's law?</b> C) $V = R \frac{P}{nT}$ (when 'P' and 'n' are constant) D) $V = R \frac{nT}{P}$ (when 'P' and 'n' are constant) <b>nversely proportional to the square root of their</b> C) Pressure D) Volume <b>nsists of</b> C) Electrons, ions and neutral atoms

Q.107	In the structure of NaCl, each Na <sup>+</sup> is surrounde A) Four B) Eight	d byCl <sup>-</sup> ions. C) Five D) Six
Q.108	The charge of one gram of electron is A) $1.7588 \times 10^{-11}$ B) $1.7588 \times 10^{11}$	C) 1.602 x 10 <sup>-19</sup> D) 1.7588 x 10 <sup>8</sup>
Q.109	<b>The ionization energy of hydrogen atom is</b> A) Zero B) 13.13 kJmol <sup>-1</sup>	C) 1313.31 kJmol <sup>-1</sup> D) 1313.31 k <sup>2</sup> Jmol
Q.110	Which quantum number helps to study the orie A) Principal Quantum Number B) Spin Quantum Number	entation of an orbital in space? C) Magnetic Quantum Number D) Azimuthal Quantum Number
Q.111	<b>The inter-ionic distance in a crystal lattice of K</b> A) 314 pm B) 181 pm	Cl is C) 95 pm D) 300 pm
Q.112	The number of bonds in nitrogen molecule is A) One $\sigma$ and two $\pi$ C) One $\sigma$ and one $\pi$	C) Three $\sigma$ only D) Two $\sigma$ and one $\pi$
Q.113	Which one of the following molecules has zero A) NH <sub>3</sub> B) CHCl <sub>3</sub>	dipole moment? C) BF3 D) H2O
Q.114	A spontaneous process is A) Unidirectional and irreversible B) Irreversible and a real process	C) Unidirectional and a real process D) All of the above
Q.115	The standard enthalpy of solution of NH <sub>4</sub> Cl is A) +16.2 B) -25.0	<b>kJmol<sup>-1</sup>.</b> C) +4.98 D) +26.0
Q.115 Q.116	A) +16.2	C) +4.98 D) +26.0
-	A) +16.2 B) -25.0 The K <sub>c</sub> has following units for the reaction H <sub>2(g</sub> A) mol <sup>3</sup> dm <sup>-6</sup> B) moldm <sup>-3</sup>	C) +4.98 D) +26.0 + I₂(g) ⇔ 2HI (g) C) mol <sup>-3</sup> dm <sup>6</sup>
Q.116	A) +16.2 B) -25.0 The K <sub>c</sub> has following units for the reaction H <sub>2</sub> (g A) mol <sup>3</sup> dm <sup>-6</sup> B) moldm <sup>-3</sup> <b>0.1 mole of acetic acid has been dissolved per o</b> acetic acid will be A) 13	C) +4.98 D) +26.0 $f + I_{2(g)} \Rightarrow 2HI (g)$ C) mol <sup>-3</sup> dm <sup>6</sup> D) No unit dm <sup>3</sup> of the solution, the percentage ionization of C) 1.3
Q.116 Q.117	<ul> <li>A) +16.2</li> <li>B) -25.0</li> <li>The Kc has following units for the reaction H<sub>2</sub>(g</li> <li>A) mol<sup>3</sup>dm<sup>-6</sup></li> <li>B) moldm<sup>-3</sup></li> <li>O.1 mole of acetic acid has been dissolved per of acetic acid will be</li> <li>A) 13</li> <li>B) 15</li> <li>Solubility of Ce<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub></li> <li>A) Increases with temperature</li> <li>B) Decreases with temperature</li> <li>Seawater has 5.65 x 10<sup>-3</sup> g of dissolved oxygen parts per million is</li> </ul>	C) +4.98 D) +26.0 $+ I_{2(g)} \Rightarrow 2HI_{(g)}$ C) mol <sup>-3</sup> dm <sup>6</sup> D) No unit $Im^3$ of the solution, the percentage ionization of C) 1.3 D) 0.1 C) Shows exceptional behavior D) Remains constant in one kilogram of water. Concentration of O <sub>2</sub> in
Q.116 Q.117 Q.118	<ul> <li>A) +16.2</li> <li>B) -25.0</li> <li>The Kc has following units for the reaction H<sub>2</sub>(g)</li> <li>A) mol<sup>3</sup>dm<sup>-6</sup></li> <li>B) moldm<sup>-3</sup></li> <li>O.1 mole of acetic acid has been dissolved per of acetic acid will be</li> <li>A) 13</li> <li>B) 15</li> <li>Solubility of Ce<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub></li> <li>A) Increases with temperature</li> <li>B) Decreases with temperature</li> <li>Seawater has 5.65 x 10<sup>-3</sup> g of dissolved oxygen</li> </ul>	C) +4.98 D) +26.0 $+ I_{2(g)} \Rightarrow 2HI_{(g)}$ C) mol <sup>-3</sup> dm <sup>6</sup> D) No unit dm <sup>3</sup> of the solution, the percentage ionization of C) 1.3 D) 0.1 C) Shows exceptional behavior D) Remains constant
Q.116 Q.117 Q.118	<ul> <li>A) +16.2</li> <li>B) -25.0</li> <li>The Kc has following units for the reaction H<sub>2</sub>(g</li> <li>A) mol<sup>3</sup>dm<sup>-6</sup></li> <li>B) moldm<sup>-3</sup></li> <li>O.1 mole of acetic acid has been dissolved per of acetic acid will be</li> <li>A) 13</li> <li>B) 15</li> <li>Solubility of Ce<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub></li> <li>A) Increases with temperature</li> <li>B) Decreases with temperature</li> <li>Seawater has 5.65 x 10<sup>-3</sup> g of dissolved oxygen parts per million is</li> <li>A) 5.65</li> <li>B) 7.69</li> </ul>	C) +4.98 D) +26.0 $+ I_{2(9)} \Rightarrow 2HI_{(9)}$ C) mol <sup>-3</sup> dm <sup>6</sup> D) No unit Im <sup>3</sup> of the solution, the percentage ionization of C) 1.3 D) 0.1 C) Shows exceptional behavior D) Remains constant in one kilogram of water. Concentration of O <sub>2</sub> in C) 5.20
Q.116 Q.117 Q.118 Q.119	<ul> <li>A) +16.2</li> <li>B) -25.0</li> <li>The Kc has following units for the reaction H<sub>2</sub>(g)</li> <li>A) mol<sup>3</sup>dm<sup>-6</sup></li> <li>B) moldm<sup>-3</sup></li> <li>O.1 mole of acetic acid has been dissolved per of acetic acid will be</li> <li>A) 13</li> <li>B) 15</li> <li>Solubility of Ce<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub></li> <li>A) Increases with temperature</li> <li>B) Decreases with temperature</li> <li>Seawater has 5.65 x 10<sup>-3</sup> g of dissolved oxygen parts per million is</li> <li>A) 5.65</li> <li>B) 7.69</li> <li>Metallic conduction involves the relatively free</li> </ul>	C) +4.98 D) +26.0 $+ I_{2(9)} \Rightarrow 2HI (9)$ C) mol <sup>-3</sup> dm <sup>6</sup> D) No unit $Im^3$ of the solution, the percentage ionization of C) 1.3 D) 0.1 C) Shows exceptional behavior D) Remains constant in one kilogram of water. Concentration of O <sub>2</sub> in C) 5.20 D) 4.11
Q.116 Q.117 Q.118 Q.119	<ul> <li>A) +16.2</li> <li>B) -25.0</li> <li>The Kc has following units for the reaction H<sub>2</sub>(g)</li> <li>A) mol<sup>3</sup>dm<sup>-6</sup></li> <li>B) moldm<sup>-3</sup></li> <li>O.1 mole of acetic acid has been dissolved per of acetic acid will be</li> <li>A) 13</li> <li>B) 15</li> <li>Solubility of Ce<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub></li> <li>A) Increases with temperature</li> <li>B) Decreases with temperature</li> <li>Seawater has 5.65 x 10<sup>-3</sup> g of dissolved oxygen parts per million is</li> <li>A) 5.65</li> <li>B) 7.69</li> <li>Metallic conduction involves the relatively free metallic lattice</li> <li>A) Atoms</li> </ul>	C) +4.98 D) +26.0 <b>+ I</b> <sub>2</sub> (g) $\Rightarrow$ <b>2HI</b> (g) C) mol <sup>-3</sup> dm <sup>6</sup> D) No unit <b>Im<sup>3</sup> of the solution, the percentage ionization of</b> C) 1.3 D) 0.1 C) Shows exceptional behavior D) Remains constant <b>in one kilogram of water. Concentration of O</b> <sub>2</sub> <b>in</b> C) 5.20 D) 4.11 <b>movement of theirthroughout the</b> C) Electrons D) Ions

A) Effect B) Affect C) Influence D) Impression

Page 1	0 of 17
Q.122	Do not lose heart, it is just ain the tea cup
-	A) Wind C) Blast
	B) Cyclone D) Storm
Q.123	Pakistanfrom voting against Iran in the United Nations
	A) Prevented C) Abstained
	B) Detained D) Refused
Q.124	Pleasethe door after you.
	A) Close C) Leave
	B) Shut D) Knock
$ \longrightarrow $	SPOT THE EPROP. In the following conteneor, some cogments of each conteneo are
$\square$	SPOT THE ERROR: In the following sentences, some segments of each sentence are
	underlined. Your task is to identify that underlined segment of the sentence, which
	contains the mistake that needs to be corrected. Fill the Circle corresponding to that
	letter under the segment in the MCQ Response From.
Q.125	Suddenly he stopped at the edge of the meadow, taking his pocket knife from his pocket, and cut
	A) B) C) a wisp of alfalfa.
	D)
	В)
Q.126	The study of population growth indicates one of the greatest paradox of our time.
Q	A) B) C) D)
Q.127	Among the Western nations, the decline in the <u>death rate is followed</u> after an interval by <u>the</u>
	A) B)
	<u>reduction in the birth</u> rate, so that the population <u>is <b>not</b> now growing</u> so fast.
	C) D)
0 1 2 9	In view of increasing barards with our patienal eccurity it is the duty of eveny sitizen to keep a
Q.128	In view of increasing hazards <u>with</u> our national security <u>it is</u> the duty of every citizen <u>to keep</u> a A) B) C)
	watch <u>on his surroundings</u> .
	D)
Q.129	Thrifty housewives preserved their homegrown vegetables and fruits in canning, pickling or drying
	A) B)
	them <u>for</u> use during <u>the</u> cold weather.
	C) D)
0 1 2 0	Without a law sector to a sector be a sector maintain a law a family this summary many
Q.130	When a low-wage category worker finds he has to maintain a large family, his expenses may
	A) B) C) exceeds his income.
	D)
$\square$	In each of the following question, four alternative sentences are given.
V	Choose the CORRECT one and fill the Circle corresponding to that letter in the
	MCQ Response Form.
Q.131	
	A) This is different to what had been expected. C) This is different from what had been expected.
	B) This is different what had been expected. D) This is different to what would be expected.
Q.132	
	A) He suddenly remembered that he has left his house unlocked.
	B) He suddenly remembered that he may have left his house unlocked.
	C) He suddenly remembered that he had left his house unlocked.
	D) He suddenly remembered that he will have left his house unlocked.

#### Q.133

- A) He asked us would we care to go.B) He asked us if we would care to go.
- C) He asked us we would care to go. D) He asked us we will care to go.

- A) When this war is over, no nation will either be isolated in war or peace.
- B) When this war is over, no nation will be either isolated in war or peace.
- C) When this war is over, no nation will neither be isolated in war nor peace.
- D) When this war is over, no nation will be isolated either in war or in peace.

#### Q.135

- A) When the fact failed him, he questions his senses.
- B) When the fact failed him, he questioned from his senses.
- C) When the fact fails him, he questions his senses.
- D) He will question his senses, when the fact will fail him.

#### Q.136

- A) He said there has been no need to do it.
- B) He said there wasn't no need to do it.

#### Q.137

- A) I could barely make of the traffic sings through the rain.
- B) I could barely make out the traffic signs because of the rain.
- C) I could barely make up the traffic sings through the rain.
- D) I could barely make with the traffic signs through the rain.

#### Q.138

- A) He walked as though he is lame.B) He walked as though he was lame.
- C) He walked as though he were lame.
- D) He walked as though he may have been lame.

C) He said there had been not any need doing it.

D) He said there was no need to do it.

#### Q.139

A) E-mail is a relatively new means of communication. C) E-mail is a relatively new mean to communication.B) E-mail is a relatively new mean of communication. D) E-mail is a relatively new means to communication.

#### Q.140

A) The remain of the body was thrown into the sea.B) The remains of the body were thrown into the sea.D) The remains of the body was thrown into the sea.D) The remains of the body was thrown into the sea.

C) Protest

D) Borrow

D) Teacher

C) Upset

D) Odd

C) Knee

D) Sleep

C) Expert critic of art

# In each of the following question, four alternative meanings of a word are given. You have to select the NEAREST CORRECT MEANING of the given word and fill the appropriate Circle on the MCQ Response Form.

#### Q.141 WALLOW A) Roll about B) Mock

Q.142 CONNOISSEUR A) Guide B) Artist

- Q.143 ECCENTRIC A) Lunatic B) Stern
- Q.144 BOULDER A) Rounded stone / hill B) Builder

#### Q.145 SLUMBER

A) HeapB) Humble

#### Q.146 EXCREMENT

A) IncrementB) Waste matter expelled from body

C) Excitement D) Disagreement

C) Magnanimity

D) Magnitude

Page 12 of 17 Q.147 VISAGE C) Trunk less A) Vision B) Illusion D) A person's face 0.148 FELICITY A) Intense Happiness C) Inspire B) Respite D) Sensational **ENMESHED** Q.149 C) Gallows A) Sojourn B) Entangled D) Cascade CAPTIVATE Q.150 A) Hesitate C) Hate B) Concentrate D) Fascinate BIOLOGY Book lungs are present in arthropods for exchange of gases in class: Q.151 A) Crustacea C) Myriapoda B) Insecta D) Arachnida Larvae of which group are similar to chordates? Q.152 A) Echinodermata C) Arthropoda B) Annelida D) Nematoda Q.153 Type of respiration which involves step by step breakdown of carbon chain molecules in the cell is called: A) External respiration C) Pulmonary respiration B) Cellular respiration D) Cutaneous respiration Instrument which is used to measure relative abilities of different pigments to absorb different Q.154 wavelengths of light is called: A) Spectrometer C) Barometer **B)** Photometer D) Spectrophotometer Q.155 End products of yeast fermentation, bacterial fermentation and anaerobic respiration are A) Citric acid, lactic acid, carbon dioxide and water C) Ethyl alcohol, lactic acid, carbon dioxide and water B) Ethyl alcohol, citric acid and carbon dioxide D) Methanol, lactic acid and citric acid In human beings, what is the function of amylase in digestion? 0.156 C) Digestion of all types of food A) Digestion of triglycerides B) Digestion of lipids D) Digestion of carbohydrates Q.157 Where is the ileocolic sphincter located in your body? A) At the junction of esophagus and stomach C) At the junction of ileum and large intestine B) At the junction of stomach and small intestine D) At the junction of small intestine and large intestine The term which is employed to the loss of appetite due to fear of becoming obese is 0.158 A) Obesity C) Dyspepsia B) Anorexia nervosa D) Bulimia nervosa Q.159 Which one of the following acts as functional unit of lungs in man? A) Air sac C) Trachea B) Larynx D) Bronchioles Q.160 Which one of following factors is directly proportional to oxygen carrying capacity of haemoglobin? A) Carbon dioxide C) pH B) Temperature D) Light

Q.161	<b>Expiration in human beings is carried out by</b> A) Contraction of lungs B) Contraction of intercostal membrane	C) Relaxation of intercostal and diaphragm muscles D) Contraction of diaphragm muscles
Q.162	Which one of the following is a precursor of st A) Glycerol B) Sterol	eroid hormones? C) Amino acids D) Cholesterol
Q.163	<b>Granulocytes or white blood cells are produce</b> A) Lymph nodes B) Red bone marrow	d in C) Tonsils D) Spleen
Q.164	Which one of the following statements best de A) It sends out electrical impulses to atrial muscles of B) It consists of small number of diffusely oriented of C) It sends out electrical impulses to ventricular musc D) It is present at upper end of left atrium.	ausing both atria to contract. ardiac fibres
Q.165	The flow of lymph in lymphatic vessels is main A) Heart, activity of smooth muscles and valves B) Activity of skeletal muscles, heart and breathing r C) Breathing movements, activity of skeletal muscles D) Exercise, breathing movements and heart	novements
Q.166	<b>Metabolic waste from metabolism of nucleic a</b> A) Uric acid B) Creatine	cid is C) Urea D) Creatinine
Q.167	The central metabolic station and clearing ho	
	A) Liver B) Kidney	C) Nephron D) Glomerulus
Q.168	The muscles that control urine in bladder are A) Striated muscles B) Smooth muscles	known as C) Sphincter muscles D) Circular muscles
Q.169	The living cells of cartilage are called A) Chrondrocytes B) Osteoblasts	C) Ostecytes D) Osteoclasts
Q.170	<b>The disease which causes immobility and fusi</b> A) Osteomalacia (soft bones) B) Disc slip	<b>on of vertebral joints is</b> C) Arthritis D) Spondylosis
Q.171	During muscle contraction A) I-band shortens B) Myosin filaments shorten	C) Actin filaments shorten D) Z-line disappears
Q.172	Hormones are the organic compounds of varyi is not a function or property of these compoun	ng structural complexity. Which of the following
	<ul><li>A) They initiate new biochemical reactions</li><li>B) They are poured directly into blood</li></ul>	C) They may be proteins D) They affect target cells
Q.173	Reflexes and instincts type of behaviours resp A) Biological rhythms, territorial, courtship and deve B) The responses that do produce same result in diffe C) Aggression, mating and altruism D) The responses that are predetermined like different	lopment erent conditions
Q.174	<b>A typical neuron at rest</b> A) Is more positive outside than inside	C) Has no charge on either side

B) Is more negative outside than inside

- C) Has no charge on either side
- D) has an equal charge on either side

Q.175	A) Interstitial cells	ated cell division of germinal epithelium of testis are C) Secondary spermatocytes	
	B) Spermatogonia	D) Spermatids	
Q.176	Which of the following sequence is	correct?	
<b>L</b>	A) LH 🗆 FSH 🗆 Estrogen 🗆 Progesterone	C) FSH 🗆 Estrogen 🗆 Progesterone 🗆 LH	
	B) FSH 🛛 LH 🗆 Progesterone 🗆 Estrogen	D) FSH 🗆 Estrogen 🗆 LH 🗆 Progesterone	
Q.177	Which chromosomal abnormality in humans causes aggressive and antisocial behavior?		
	A) XO	C) XYY	
	B) XXY	D) XXX	
Q.178	Grey equatorial cytoplasm produces		
	A) Muscle cells	C) Notochord and neural tube	
	B) Gut	D) Larval epidermis	
Q.179		f which type of chromosomal defect?	
	A) Chromosomal rearrangement	C) Chromosomal aberration	
	B) Transposition of gene	D) Point mutation	
Q.180	The karyotype of an individual is	of chromosomes.	
	A) Number	C) Number, types and chemical composition	
	B) Types	D) Number and types	
Q.181	The process of replication of DNA be		
	A) One place only without any specific se		
	<ul> <li>B) One or more places without any specification</li> </ul>	fic sequence of DNA	
	C) Any place with the uncoiling of two st	rands of DNA	
	D) One or more places where there is a s	pecific sequence of nucle <mark>ot</mark> ides	
Q.182	Amino acid attaches at which site o	f RNA	
	A) Anticodon site	C) 3'-site with terminal OH	
	B) Ribosomes recognition site	D) Activation enzyme recognition site	
Q.183	Microtubules of spindle fibres are co	omposed of a protein called	
	A) Tubulin	C) Myosin	
	B) Actin	D) Troponin	
Q.184	The kinetochore fibres contract and	spindle or pole fibres elongate during	
	A) Prophase I	C) Telophase I	
	B) Metaphase I	D) Anaphase I	
0 105	Call death due to tierus damage is a		
Q.185	Cell death due to tissue damage is o		
Q.185	A) Necrosis	C) Apoptosis	
Q.185			
-	<ul> <li>A) Necrosis</li> <li>B) Metastasis</li> <li>When a disease is transmitted direct</li> </ul>	C) Apoptosis D) Epistasis tly from an affected father to his son, it is called:	
-	A) Necrosis B) Metastasis	C) Apoptosis D) Epistasis	
-	<ul> <li>A) Necrosis</li> <li>B) Metastasis</li> <li>When a disease is transmitted direct</li> </ul>	C) Apoptosis D) Epistasis tly from an affected father to his son, it is called:	
Q.185 Q.186 Q.187	<ul> <li>A) Necrosis</li> <li>B) Metastasis</li> <li>When a disease is transmitted direct</li> <li>A) X-linked</li> <li>B) Autosomal</li> <li>Epistasis is a relationship between:</li> </ul>	C) Apoptosis D) Epistasis <b>Itly from an affected father to his son, it is called:</b> C) Y-linked D) X and Y-linked	
Q.186	<ul> <li>A) Necrosis</li> <li>B) Metastasis</li> <li>When a disease is transmitted direct</li> <li>A) X-linked</li> <li>B) Autosomal</li> <li>Epistasis is a relationship between:</li> <li>A) Alleles of a gene</li> </ul>	C) Apoptosis D) Epistasis Extly from an affected father to his son, it is called: C) Y-linked D) X and Y-linked C) Two contrasting traits	
Q.186	<ul> <li>A) Necrosis</li> <li>B) Metastasis</li> <li>When a disease is transmitted direct</li> <li>A) X-linked</li> <li>B) Autosomal</li> <li>Epistasis is a relationship between:</li> </ul>	C) Apoptosis D) Epistasis Etly from an affected father to his son, it is called: C) Y-linked D) X and Y-linked C) Two contrasting traits	
Q.186 Q.187	<ul> <li>A) Necrosis</li> <li>B) Metastasis</li> <li>When a disease is transmitted direct</li> <li>A) X-linked</li> <li>B) Autosomal</li> <li>Epistasis is a relationship between:</li> <li>A) Alleles of a gene</li> <li>B) Two different genes at the same locus</li> <li>Gene for albinism in man is present</li> </ul>	C) Apoptosis D) Epistasis C) Y-linked D) X and Y-linked C) Two contrasting traits D) Two different genes at different loci on chromosome number:	
Q.186 Q.187	<ul> <li>A) Necrosis</li> <li>B) Metastasis</li> <li>When a disease is transmitted direct</li> <li>A) X-linked</li> <li>B) Autosomal</li> <li>Epistasis is a relationship between:</li> <li>A) Alleles of a gene</li> <li>B) Two different genes at the same locus</li> <li>Gene for albinism in man is present</li> <li>A) 11</li> </ul>	C) Apoptosis D) Epistasis C) Y-linked D) X and Y-linked C) Two contrasting traits D) Two different genes at different loci on chromosome number: C) 21	
Q.186	<ul> <li>A) Necrosis</li> <li>B) Metastasis</li> <li>When a disease is transmitted direct</li> <li>A) X-linked</li> <li>B) Autosomal</li> <li>Epistasis is a relationship between:</li> <li>A) Alleles of a gene</li> <li>B) Two different genes at the same locus</li> <li>Gene for albinism in man is present</li> </ul>	C) Apoptosis D) Epistasis C) Y-linked D) X and Y-linked C) Two contrasting traits D) Two different genes at different loci on chromosome number:	
Q.186 Q.187 Q.188	<ul> <li>A) Necrosis</li> <li>B) Metastasis</li> <li>When a disease is transmitted direct</li> <li>A) X-linked</li> <li>B) Autosomal</li> <li>Epistasis is a relationship between:</li> <li>A) Alleles of a gene</li> <li>B) Two different genes at the same locus</li> <li>Gene for albinism in man is present</li> <li>A) 11</li> </ul>	C) Apoptosis D) Epistasis C) Y-linked D) X and Y-linked C) Two contrasting traits D) Two different genes at different loci on chromosome number: C) 21 D) 12	
Q.186 Q.187	<ul> <li>A) Necrosis</li> <li>B) Metastasis</li> <li>When a disease is transmitted direct</li> <li>A) X-linked</li> <li>B) Autosomal</li> <li>Epistasis is a relationship between:</li> <li>A) Alleles of a gene</li> <li>B) Two different genes at the same locus</li> <li>Gene for albinism in man is present</li> <li>A) 11</li> <li>B) 22</li> </ul>	C) Apoptosis D) Epistasis C) Y-linked D) X and Y-linked C) Two contrasting traits D) Two different genes at different loci on chromosome number: C) 21 D) 12	

		Page 15 of 17
Q.190		cline and ampicillin are present in the plasmid
	A) pSC 101	C) pBR 322
	B) pCR 101	D) pBR 233
Q.191	Cloning is a form of	
	A) Sexual Reproduction	C) Vegetative Propagation
	B) Asexual Reproduction	D) Genetic Recombination
Q.192		particular species, sharing common geographical area is
	called:	
	A) Population	C) Community
	B) Community ecology	D) Autecology
0 1 0 0		
Q.193	Which of the following proteins is con	
	A) Haemoglobin	C) Cytochrome c
	B) Myoglobin	D) Pilin
Q.194	Ozone filters ultraviolet radiations fro	om the cup in the upper
Q.194	A) Biosphere	C) Lithosphere
	B) Atmosphere	D) Hydrosphere
	b) Athosphere	D) Tydrosphere
Q.195	A parasite living inside body of the h	ost is called
Q.195	A) Ectoparasite	C) Facultative parasite
	B) Obligate parasite	D) Endoparasite
	b) Obligate parasite	D) Endoparasite
Q.196	An association between two organism	ms benefiting both is called
Q.130	A) Commensalism	C) Predation
	B) Parasitism	D) Symbiosis
	5) - 4-40-60-61	b) c) mbiodo
Q.197	In aquatic ecosystem, human activit	ies may accelerate the process of
	A) Eutrophication	C) Decomposition
	B) Photosynthesis	D) Recycling
	,,	,,
Q.198	Beri Beri is due to	
-	A) Metabolic disorder	C) Nutritional deficiency
	B) Chemical causes	D) Mental Illness
Q.199	The natural heat energy trapped und	-
	A) Geothermal energy	C) Electric energy
	B) Thermal energy	D) Solar energy
Q.200		level of biological organization with respect to others? C) Species
	A) Multicellular organisms	
	B) Biosphere	D) Population
Q.201	When an electron pair is shared betw	leen two atoms
Q.201	A) Two covalent bonds are formed	C) Single covalent bond is formed
	B) Hydrogen bond is formed	D) Ionic bond is formed
	b) hydrogen bond is formed	b) tonic bond is formed
Q.202	The first microbe to have the genome	e completely sequenced and was published on July 28 <sup>th</sup> ,
2	1995 was	
	A) Hyphomicrobium	C) Haemophillus malariae
	B) Haemophilus aquaticus	D) Haemophillus infulenzae
Q.203	An activated enzyme consisting of po	blypeptide and a cofactor is known as
<u> </u>	A) Amylase	C) Haloenzyme
	B) Apoenzyme	D) Coenzyme
	, . <u>.</u>	-,,

Q.204	forms weak linkages with enzymes and their effect can be neutralized completely		
	or partly by an increase in the concentration o		
	A) Only competitive Inhibitors	C) Irreversible inhibitors	
	B) Reversible inhibitors	D) Both reversible and irreversible inhibitors	
Q.205	In prokaryotic cell, wall strengthening materia	ll is	
	A) Cellulose	C) Chitin	
	B) Silica	D) Peptidoglycan	
Q.206	The entire cell wall of bacteria is often regarded called	as a single huge molecule or molecular complex	
	A) Capsule	C) Slime capsule	
	B) Secondary wall	D) Sacculus	
Q.207	Krebs's cycle takes place in		
	A) Ribosomes	C) Mitochondria	
	B) Golgi apparatus	D) Endoplasmic Reticulum	
Q.208	Chemically, viruses are made up of		
	A) Nucleic acid only	C) Nucleic acid and protein	
	B) Protein only	D) Core and coat	
	,,		
Q.209	Widespread epidemic disease, influenza is cau		
	A) DNA virus	C) DNA enveloped virus	
	B) RNA enveloped virus	D) RNA virus	
Q.210	When the division of cells is in three planes, th	e arrangement is known as	
Q.210	A) Diplococcus	C) Streptococcus	
	B) Sarcina	D) Staphylococcus	
	b) Saicilla	D) Staphylococcus	
Q.211	Bacterial `death rate' is equal to `birth rate; in		
	A) Lag phase	C) Death phase	
	B) Log phase	D) Stationary phase	
Q.212	Trypanosoma is a human parasite causing		
Q.212	A) African sleeping sickness	C) Indonesian sleeping sickness	
	B) European sleeping sickness	D) American sleeping sickness	
Q.213	The feeding stage of slime mold is a		
	A) Gastrozoid	C) Plasmodium	
	B) Sporozoite	D) Merozote	
Q.214	Drug obtained from fungus used for lowing blo	ood cholesterol is	
-	A) Lovastatin	C) Ergotin	
	B) Cyclosporin	D) Griseofulvin	
	2 · 7 · · · · P	,	
Q.215	Fungi store surplus food in the form of		
	A) Cellulose	C) Starch	
	B) Glycogen	D) Both B and C	
Q.216	The ecological role of fungi as decomposers is	paralleled only by	
• -	A) Prions	C) Bacteria	
	B) Algae	D) Viruses	
0 217	"Vaccular System abconti damotonhuto domini	ant enoronhyte attached to gametenbyte	
Q.217	"Vascular System absent; gametophyte domina homosporous" are distinguishing characters of		
Q.217			

#### Q.218 Which of the following features differentiate angiosperms from gymnosperms?

A) Pollens disperse by air B) Haploid microspores C) Ovaries D) Pollen tubes

#### Q.219 In Pakistan, the furniture wood is mainly obtained from the members of family:

A) Rosaceae B) Solanaceae

- C) Minosaceae
- D) Fabaceae

#### Q.220 Which of the following is exclusive character of mammals?

- A) Homeothermic
  - B) Hair

- C) Poikliothermic
- D) Four chambered heart

#### (MCAT Preparations 2017 - ARK) (Copyright Protected MCAT Preparations 2017 - ARK)

### **MBBS.COM.PK**

UHS MDCAT PAST PAPERS BOOK Hard Copy Available Now.



Page 1 of 19

### **University of Health Sciences, Lahore**



Total MCQs: 220

Max. Marks: 1100

### ENTRANCE TEST - 2011 For F.Sc. and Non-F.Sc. Students <u>Time Allowed: 150 minutes</u>

### Instructions:

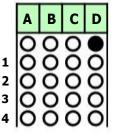
- i. Read the instructions on the MCQs Response Form carefully.
- ii. Choose the **Single Best Answer** for each question.
- iii. Candidates are strictly prohibited from giving any identification mark except Roll No. & Signature in the specified columns only.

## **COMPULSORY QUESTION FOR IDENTIFICATION**

**Q-ID. What is the color of your Question Paper?** A) White. C) Pink.

B)

Blue. <u>D) Green.</u> Ans: Colour of your Question Paper is Green. Fill the Circle Corresponding to Letter 'D' against 'ID' in your MCQ response form (Exactly as shown in the diagram).



## **PHYSICS**

- Q.1When the dimensions of both sides of an equation are equal, then the equation is said to be<br/>A) Simultaneous<br/>B) HomologousC) Instantaneous<br/>D) Quadratic
- Q.2 Radian is a unit of angular displacement which can also be measured in degrees. How many radians are equal to one degree? 180  $2\pi$

A)	
- 1	п П
B)	180

C	2π
C)	180 π
D)	57.3

Q.3 An elevator is moving upwards with constant velocity of `v'. What is a weight of a person of a mass `m' inside the elevator during upward motion?

A) mg + mv	C) mg — mv
B) mg	D) zero

Q.4 An object having spherical shape of radius 'r' experiences a retarding force F from a fluid of coefficient of viscosity 'n' when moving through the fluid with speed 'v'. What is the ratio of retarding force to speed?

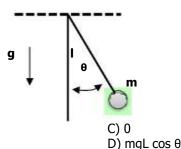
A) 6πη r²	C) 6πη r
B) 6πη/r²	D) 6πη/r

- Q.5 When the drag force is equal to the weight of the droplet, the droplet will fall with:
  - A) High Speed B) Low Speed

- C) Certain acceleration
- D) Constant Speed

### Page 2 of 19

Q.6 A simple pendulum length 'L' with bob of mass 'm' is slightly displaced from its mean position so that it string makes an angle 'θ' with vertical line as shown in the figure. Then bob of pendulum released. What will be the expression of torque with which the bob starts to move towards the mean position?



A) mgL B) mgL sin θ

Q.7 The density of blood is: A) Less than water B) Nearly equal to water

C) Greater than water D) Three times that of water

Q.8 A monochromatic light of wavelength ' $\lambda$ ' is used to produce the diffraction pattern through a single slit of width X. Which one of the following represents the intensity distribution across the screen?

A)

B)

### Q.9 For interference of light waves to take place, the required condition is

- A) The path difference of the light waves from the two sources must be large
  - B) The interfering waves must be non-coherent
  - C) The light waves may come from different sources
  - D) The light waves must come from two coherent sources
- Q.10 The property of bending of light around an obstacle and spreading of light waves into geometric shadow of an obstacle is called:

D)

A) Diffraction of LightB) Polarization of Light

C) Quantization of Light D) Interference of Light

Q.11 The normal human eye can focus a sharp image of an object on the eye if the object is located at certain distance called

A) Least Point	C) Far Point
B) Near Point	D) Distinct Point

Q.12 A source of sound wave emits waves of frequency 'f'. If 'v' is speed of sound waves, then what will be the wavelength of the waves

A) $\frac{v}{f}$	C) <sup>V</sup>
B) vf	D) (v – u₀)f

Q.13 The spectrum of a star's light is measured and the wavelength of one of the lines as the sodium's line is found to be 589 nm. The same line has the wavelength of 497 nm when observed in the laboratory. This means the star is

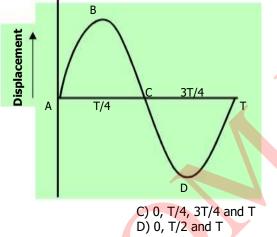
A) Moving away from the earthB) Moving towards the north

C) Stationary

D) Revolving around the planet

- Q.14 What is the period of mass spring system during SHM if the ratio of mass to spring constant is <sup>1</sup>/<sub>4</sub>?
  - А) п В) 2 п

- С) 1/п D) ½ п
- Q.15 Waveform of SHM is given in figure. At what time/times displacement is equal to zero?



- A) T/4 only
- B) 3T/4 only

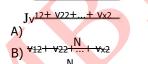
### Q.16 A wire is stretched by a force which causes an extension. The energy is stored in it only when:

- A) The extension of wire is proportional to force applied
- B) The cross-section area of the wire remains constant
- C) The wire is not stretched beyond its elastic limit
- D) The weight of wire is negligible

### Q.17 Which statement is correct:

- A) Elasticity is that property of body which enables body to regain its original dimension
- B) Elasticity is that property of a body that does not allow it to return to its original shape
- C) Elasticity is that property of a body that allows it to retain its original shape and dimension after the stress is removed.
- D) Elasticity is that property of a body that obeys Hooke's law.

## Q.18 Which of the following is the expression of root mean square speed of a gas having n number of molecules contained in the container?



	$v_1 + v_2 + + v_x$
C)J	
, (D	<del>√1 + √2 + + √x</del>
-)	Ν

- Q.19 For a gas of volume V in its equilibrium state, if the pressure does change with time then total kinetic energy of gas is constant because
  - A) Collisions between gas molecules occur
  - B) Collisions between gas molecules occur linearly
- C) Collisions must be elastic
- D) Collisions must be inelastic

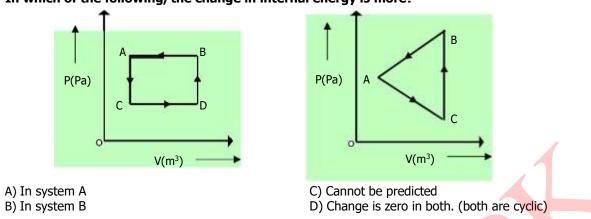
### Q.20 Which of the following is the proper way to study the sinusoidal waveform of the voltage?

- A) Voltage is connected to X input and the time base is switched off
- B) Voltage is connected to Y input and the time base is switched on
- C) Voltage is connected to Y input and the time base is switched off
- D) Voltage is connected to X input and the time base is switched on

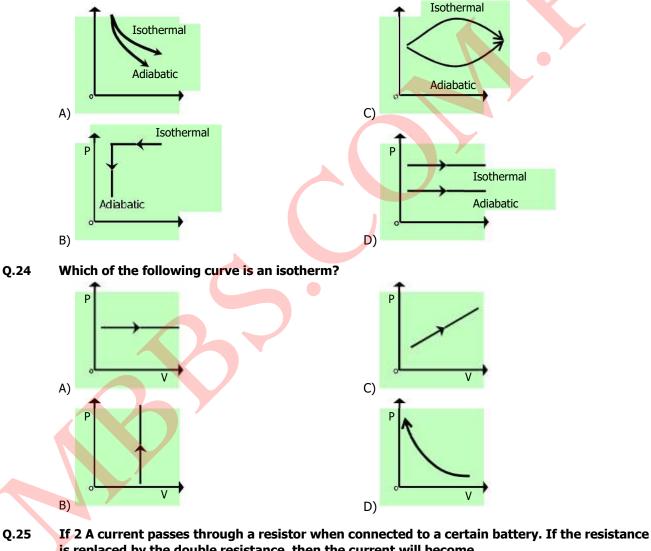
### Q.21 Electron gun in cathode ray oscilloscope contains

- A) Filament, cathode, grid, anodes
  - B) Cathode, anode, capacitor, screen
- C) Emitter, base, collector
- D) Resistance, capacitor, inductor

## Page 4 of 19Q.22In which of the following, the change in internal energy is more?



Q.23 Pressure volume graph of two systems 'A' and 'B' are plotted under isothermal and adiabatic conditions. Which of the following observation of graph represents the two systems?



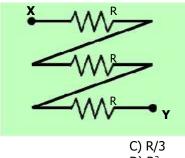
Q.25If 2 A current passes through a resistor when connected to a certain battery. If the resistance<br/>is replaced by the double resistance, then the current will becomeA) 2 AC) 6 AB) 4 AD) 1 A

 Q.26
 In Helium-Neon laser, population inversion of \_\_\_\_\_\_\_ atoms is achieved which emit radiations, when they are stimulated to fall at lower level.
 atoms is achieved which emit

 A) Neon
 C) Helium and Neon

 B) Helium
 D) Chromium

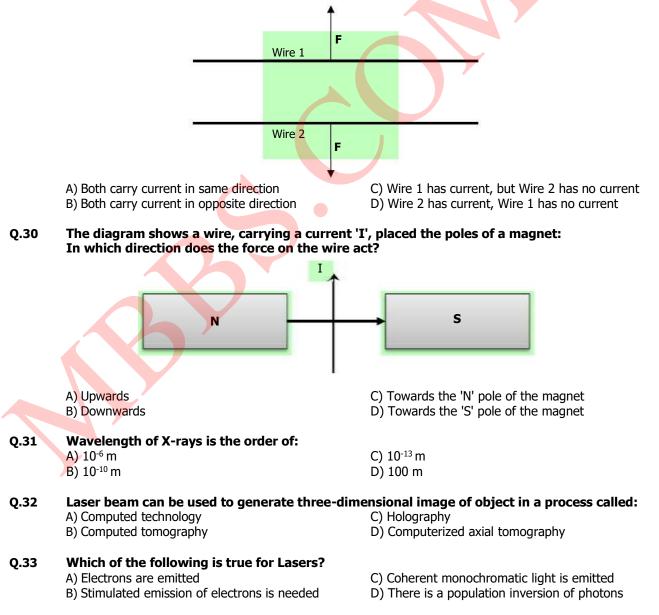
Three resistors each having value 'R' are connected as shown in figure. What is the equivalence Q.27 resistance between 'X' and 'Y'?



A) 3R B) R

D) R<sup>3</sup>

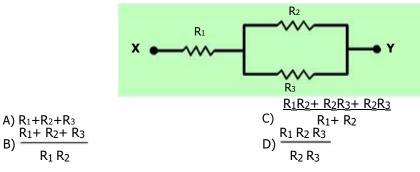
- Q.28 If the number of turns of a solenoid circular coil is doubled, but the current in the coil and radius of the coil remains same, then what will be the magnetic flux density produced by the coil? A) Magnetic flux density will be halved
  - B) Magnetic flux density increases by different amount at different points
  - C) Magnetic flux density remains unchanged
  - D) Magnetic flux density will be doubled
- Q.29 Two long parallel wires Wire 1 and Wire 2 repel each other as shown in the figure. What could be the reasons?



### Page 6 of 19

B) '

Three resistors of resistance R<sub>1</sub>, R<sub>2</sub> and R<sub>3</sub> are connected as shown in figure. Equivalence Q.34 resistance is:



#### Q.35 What is meant by spontaneous emission of electrons in solids?

- A) Electrons being emitted by the solids through photoelectric effect when irradiated with electromagnetic radiation
- B) Incident electrons colliding with electrons in solids and releasing doubling the number of incident electrons
- C) Electrons in solids are emitted without any external stimulus through radiation

D) Excited electrons going back to lower energy states immediately by releasing energy.

Q.36 When electrons lose all their kinetic energy in the first collision, the entire kinetic appears as an X-ray photon of energy: hc

	A) K.E = $eV$	C) K.E = $-$		
	B) K.E = $\frac{h_{\lambda_{min}}}{2}$	h		
	C	$K.E = \frac{1}{\lambda_{max}}$		
0 27	The characteristic V way execting is due to			
Q.37	The characteristic X-ray spectrum is due to: A) The absorption of neutrons by target material	C) The bombardment of target material by electrons		
	B) The bombardment of target material by protons	D) The bombardment of target material by alpha particles		
Q.38	Ionizing capability of gamma rays is:			
Q100	A) Equal to alpha and beta particle	C) Less than both alpha and beta particles		
	B) Less than alpha but greater than beta particles	D) Less than beta but greater than alpha particles		
Q.39	2.39 Half-life of a radioactive element is:			
-	A) Inversely proportional to square of decay constant C) Directly proportional to decay constant			
	B) Directly proportional to square of decay constant	D) Inversely proportional to decay constant		
Q.40	Q.40 The transformation of a neutron into proton in the nucleus gives rise to emission of			
	A) Beta particles	C) Gamma particles		
	B) Alpha particles	D) X-rays		
Q.41 The ratio of the rate of decay of a parent atom to the number of radioactive nu		to the number of radioactive nuclei present at		
	that time is equal to: A) Half-life of radioactive element	C) Decay constant of radioactive element		
	B) Mean life	D) Activity if radioactive element		
Q.42	Which one of the following particle is emitted	as a result of nuclear reaction? Rn <sup>222</sup>		
	A) Beta	C) Gamma rays		
	B) Alpha	D) One alpha and one beta		
Q.43	Which of following is used to estimate the circ	culation of blood in a patient?		
-	A) Carbon-14	C) Phosphorus-32		
	B) Carbon-12	D) Sodium-24		
Q.44	For the radiotherapy of a patient, it is required must be taken?	to double the absorbed dose in gray. What step		
	A) Energy must be quadrated	C) Energy must be raised four times		
	B) Energy must be halved	D) Energy must be doubled		

## **CHEMISTRY**

0.45	To make an estimation when the star of the				
Q.45	In mass spectrometer, detector or collector me				
	A) Masses of isotopes	C) Relative abundances of isotopes			
	B) Percentages of isotopes	D) Mass numbers of isotopes			
o 16					
Q.46	How many 'Cl' (chlorine) atoms are in two mol				
	A) $2 \times 6.02 \times 10^{-23}$ atoms	C) 2 $\times$ 10 <sup>23</sup> atoms			
	B) $35.5 \times 6.02 \times 10^{23}$ atoms	D) 2 × 6.02 × $10^{23}$ atoms			
0.47	Melting point of water is higher than petrol, because intermolecular forces in water are:				
Q.47					
	A) Weaker than petrol	C) Same as in petrol			
	B) Stronger than petrol	D) Negligible			
Q.48	DNA molecule is double stranded in which two	o chains of DNA are twisted around each other by:			
QTO	A) Hydrogen bonds	C) Covalent bonds			
	B) Vander Waal's force	D) Dative bonds			
	b) valuel waals loice	D) Dative bolids			
Q.49	The elements for which the value of ionization	energy is low, can:			
<b>45</b>	A) Gain electrons readily	C) Loss electrons less readily			
	B) Gains electron with difficulty	D) Lose electrons readily			
	by Samb cleation with annealty				
Q.50	.50 The nature of cathode rays in discharge tube:				
•	<ul> <li>A) Depends on the nature of gas taken in the discharge tube</li> <li>B) Depends upon the nature of cathode in discharge tube</li> <li>C) Is independent of the nature pf the gas in discharge tube</li> <li>D) Depends upon the nature of anode in the discharge tube</li> </ul>				
Q.51	The ability of an atom in a covalent bond to at	tract the bonding electrons is called:			
	A) Ionization energy	C) Electronegativity			
	B) Ionic bond energy	D) Electron affinity			
	2) 10 m 2 0 m 2 0 m 2 m 2 m 2 m 2 m 2 m 2 m				
Q.52	The paramagnetic character of a sub <mark>s</mark> tance is (	due <mark>to:</mark>			
-	A) Bond pairs of electrons	C) Unpaired electrons in atom or molecule			
	B) Lone pairs of electrons	D) Paired electrons in valence shells of electrons			
Q.53	Lattice energy of an ionic crystal is the enthalp				
	A) Combustion	C) Dissolution			
	B) Dissociation	D) Formation			
Q.54	In standard enthalpy of atomization, heat of t	-			
	A) Remains unchanged	C) Increases than decreases			
	B) Increases	D) Decreases			
0.55	Mole fraction of any compound us the ratio of	malos of all components in a			
Q.55		C) Molecule			
	A) Compound				
	B) Solution	D) Solid			
Q.56	Molarity is defined as the number of moles of a	any substance dissolved:			
Q.50	A) Per dm <sup>3</sup> of water	C) Per m <sup>3</sup> of water			
	B) In one gram of water	D) In 100 ml of water			
	b) in one gram of water				
Q.57	In electrolytic cell, a salt bridge is used in orde	er to:			
Q107	A) Pass the electric current	C) Mix solution of two half cells			
	B) Prevent the flow of ions	D) Allow movement of ions b/w two half cells			
	b) Hevene the now of lons	b) Allow movement of ions by w two hall cells			
Q.58	In all oxidation reactions, atoms of an element	in a chemical species lose electrons and increase			
	their:	· · · · · · · · · · · · · · · · · · ·			
	A) Oxidation states	C) Electrode			
	B) Reductions	D) Negative charges			
	,	, -00			
Q.59	In 'AgCl' solution. Some salt of NaCl is added,	'AgCl' will be precipitated due to:			
-	A) Solubility	C) Unsaturation effect			
	B) Electrolyte	D) Common ion effect			

#### Page 8 of 19 Q.60 'Ka' for an acid is higher, the stronger is the acid; relate the strength an acid with 'pKa' A) Higher pKa, weaker the acid C) pKa has no relation with acid strength B) Lower pKa, stronger the acid D) Both A and B It is experimentally found that a catalyst is used to: 0.61 A) Lower the activation energy C) Lower the pH B) Increase the activation energy D) Decrease the temp of the reaction According to collision theory of bimolecular reaction sin gas phase, the minimum amount of Q.62 energy required for an effective collision is known as: A) Heat of reaction C) Has no effect on the reaction B) Rate of reaction D) Energy of activation Carbon exists as allotropes, which are different crystalline or molecular forms of the same Q.63 substance. Graphite and diamond are allotropes of carbon. Diamond is a non-conductor whereas graphite is a good conductor because:

B) In graphite, all valence electrons are tetrahedrally D) Graphite is soft and greasy

The diagram below is a plot of melting points of elements of second period against

C) In graphite one of valence electron is free to move

A) Graphite has a layered structure

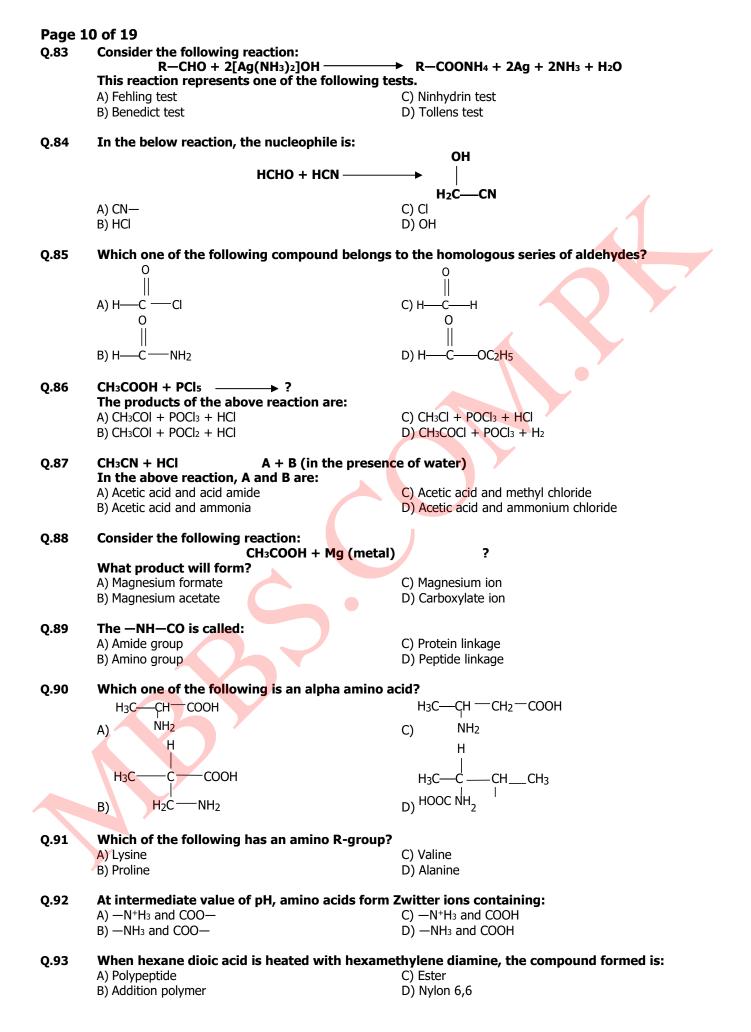
bound

Q.64

their atomic numbers. Lithium and fluorine are placed at the extreme ends of the plot, on the basis of melting points where will you place Carbon among the empty slots on the plot? Melting Point Atomic No. A) 1 C) 4 B) 2 D) 3 Q.65 When elements of group II-A (alkaline earth metals) are exposed to air, they quickly become coated with a layer of oxide. What is the purpose of this oxide layer? A) The oxide layer exposes the metal to Atmospheric attack B) The oxide layer increases the reactivity of metal C) The oxide layer protects the metal from further atmospheric attack D) The oxide layer gives the metal a shiny silvery appearance Q.66 In silicon dioxide each silicon atom is tetrahedrally bonded to four oxygen atoms and each oxygen atom is bonded to two silicon atoms. The ratio of silicon to oxygen atoms is: A) 2:2 C) 2:1 B) 1:2 D) 1:4 Q.67 Hydrogenation of unsaturated oils is done by using: A) Finally divided nickel C) Vanadium pentaoxide B) Finally divided iron D) Copper Q.68 Pick the correct statement: A) Chelates are usually more stable than ordinary C) Monodentate ligands form the chelates complexes B) Ordinary complexes are more stable than chelates D) Chelates have no ring structures Q.69 In contact process, the catalyst used for the conversion of Sulphur dioxide to Sulphur trioxide is: A) Magnesium oxide C) Silicon dioxide B) Aluminum oxide D) Vanadium pentoxide

Q.70		y acidic due to the reaction of rain water
	with:	C) Carbon diavida
	A) Sulphur dioxide B) Oxides of nitrogen	C) Carbon dioxide
	B) Oxides of fillrogen	D) Hydrogen present in air
Q.71	In the Haber's process for the manufacturing A) Proteins occurring in living bodies	<b>g of ammonia, nitrogen is taken from:</b> C) Air
	B) Ammonium salts obtained industrially	D) Mineral containing nitrates
Q.72	In comparison with oxygen gas, a strong triple bond is present between two nitrogen atoms in a molecule and therefore nitrogen gas is:	
	A) Highly reactive gas	C) Very less reactive gas
	B) Completely inert like noble gases	D) Moderately reactive gas
Q.73	The compound with an atom, which has uns A) Nucleophile	hared pair of electrons is called: C) Protophile
	B) Electrophile	D) None of the above
Q.74	1-chloropropane and 2-chlorpropane are iso two is called:	mers of each other, the type of isomerism in these
	A) Cis-trans isomerism	C) Position isomerism
	B) Chain isomerism	D) Functional group isomerism
	-,	
Q.75	Benzene in the presence of AICI3 produces a	
	A) Acetyl chloride	C) Ethyl benzene
	B) Acetic acid	D) Ethanoic acid
Q.76	The substitution of a '-H' by '-NO2' group in A) Nitration	
	B) Ammunolusis	D) Reduction of benzene
Q.77	When purely alcoholic solution of sodium/po	otassium hydroxide and halogenoalkanes are
-	reacted an alkene is formed, what is the me	
	A) Elimination	C) Debromination
	B) Dehydration	D) Reduction of benzene
Q.78	The organic compound carbon tetrachloride	is used as:
Q.70	A) Lubricant	C) Oxidant
	B) Solvent	D) Plastic
0 70		come number of content stores as that of clocked in
Q.79	the presence of $K_2Cr_2O_7/H_2SO_4$ the alcohol is	same number of carbon atoms as that of alcohol in
	A) CH <sub>3</sub> Cl(CH) <sub>2</sub> OH	C) (CH3)3COH
	B) CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> OH	D) (CH <sub>3</sub> ) <sub>3</sub> CHOH
Q.80	Which of the following is a secondary alcohol	?
	Н₃С—_СН—_ОН	$H_3C - CH - CH_2 - OH$
	H <sub>3</sub> C— <u>C</u> H—OH I A) CH <sub>3</sub>	C) CH3
	A) CI3	CH3
		$H_3C - CH - CH_2 - CH_3$
	B) H <sub>3C</sub> CH <sub>2</sub> CH <sub>2</sub> OH	CH3 OH D)
Q.81	Which enzyme is involved in the fermentation A) Zymase	on of glucose: C) Urease
	B) Invertase	D) Diastase
0.02	Delative acidie strength of starbal where t	unter and exploration - sid in
Q.82	Relative acidic strength of alcohol, phenol, v A) Carboxylic acid > Alcohol > Phenol > Water	C) Phenol > Carboxylic acid is: C) Phenol > Carboxylic acid > Alcohol > Water
	B) Carboxylic acid > Phenol > Water > Alcohol	D) Water > Alcohol > Phenol > Carboxylic acid
	by carboxylic acia > Friction > Water > Alcohol	by water - Alconor - Flichor - Carboxylic aciu

Page 9 of 19



Q.94A polymer in which the number of amino acid residue is greater than 100 or n greater than 1000, is known as: A) Protein B) PolypeptideC) Dipeptide D) TripeptideQ.95Aspartic acid is an acidic amino acid, which has chemical formula: $H_3C$ —CH—COOH A)H_3C—CH—CH2—COOH H_2C—COOH HH_3C—CH—CH2—COOH HA)NH2 H H_2C—COOH B)C)NH2 H H_2C—COOH D)H H H_2CQ.96Glucose and fructose are common examples of: A) PentosesC) Heptoses	nolecular mass is
A) Protein B) PolypeptideC) DipeptideQ.95Aspartic acid is an acidic amino acid, which has chemical formula: $H_3C-CH-COOH$ $H_3C-CH-CH_2-COOH$ A)NH2C)NH2A)NH2C)NH2HHHH_2N-C-COOHHHH_2N-C-COOHHHHH_2C-COOHH <th></th>	
B) Polypeptide D) Tripeptide Q.95 Aspartic acid is an acidic amino acid, which has chemical formula: $H_3C - CH - COOH$ A) $NH_2$ $H_2$	
Q.95Aspartic acid is an acidic amino acid, which has chemical formula: $H_3C - CH - COOH$ $H_3C - CH - CH_2 - COOH$ A) $NH_2$ $C_1$ $H_3C - CH - CH_2 - COOH$ A) $NH_2$ $H_1$ $H_2$ $H_2N - C - COOH$ $H_3C - C - C - CH - COOH$ B) $H_2C - COOH$ $H_3C - C - C - CH - COOH$ B) $H_2C - COOH$ $H_1 - H_2$ C $H_1 - H_2$ $H_2 - H_2$ C $H_2 - H_2$ $H_2 - H_2$ H $H_2 - H_2$ $H_2 - H_2$ <th></th>	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
A) $\stackrel{H_2}{NH_2}$ H $\stackrel{H_2}{H_2N}$ H $\stackrel{H_2}{H_2C}$ C) $\stackrel{H_2}{NH_2}$ H $\stackrel{H_2}{H_3C}$ C) $\stackrel{H_2}{H_2C}$ COOH $\stackrel{H_3}{H_2C}$ COOH $\stackrel{H_3}{H_2C}$ COOH $\stackrel{H_2}{H_2C}$ COOH $\stackrel{H_3}{H_2C}$ C) $\stackrel{H_2}{H_2C}$ COOH $\stackrel{H_3}{H_2C}$ C) $\stackrel{H_2}{H_2C}$ COOH $\stackrel{H_3}{H_2C}$ C) $\stackrel{H_2}{H_2C}$ COOH $\stackrel{H_3}{H_2C}$ C) $\stackrel{H_2}{H_2C}$ C) $\stackrel{H_2}{H_2C}$ C	
$H_{2}N \xrightarrow{H} C \xrightarrow{C} COOH H_{3}C \xrightarrow{H} H_{3}C \xrightarrow{H} C \xrightarrow{H} COOH H_{3}C \xrightarrow{H} C \xrightarrow{H} COOH D \xrightarrow{H} NH_{2}C$ Q.96 Glucose and fructose are common examples of:	
$H_{2}N \xrightarrow{I}_{C} COOH \qquad H_{3}C \xrightarrow{I}_{C} CH COOH \\ B) H_{2}C \xrightarrow{I}_{C} COOH \qquad D) H NH_{2}$ Q.96 Glucose and fructose are common examples of:	
$\begin{array}{c} H_{1} & H_{2} \\ H_{2} \\ H_{2} \\ \end{array} \qquad \begin{array}{c} H_{2} \\ H_{2} \\ H_{2} \\ \end{array} \qquad \begin{array}{c} H_{2} \\ H_{2} \\ H_{2} \\ \end{array} \qquad \begin{array}{c} H_{2} \\ H_{2} \\ H_{2} \\ H_{2} \\ \end{array} \qquad \begin{array}{c} H_{2} \\	
$\begin{array}{c} H_{1} & H_{2} \\ H_{2} \\ H_{2} \\ \end{array} \qquad \begin{array}{c} H_{2} \\ H_{2} \\ H_{2} \\ \end{array} \qquad \begin{array}{c} H_{2} \\ H_{2} \\ H_{2} \\ \end{array} \qquad \begin{array}{c} H_{2} \\ H_{2} \\ H_{2} \\ H_{2} \\ \end{array} \qquad \begin{array}{c} H_{2} \\	
Q.96 Glucose and fructose are common examples of:	
A) Pentoses C) Heptoses	
B) Hexoses D) Butoses	
Q.97 The reaction between fats and caustic soda is called:	
A) Hydrogenolysis C) Carboxylation	
B) Fermentation D) Saponification	
Q.98 Macromolecules are described as large molecules built up from small repeating	units known as:
A) Monomers C) Metameres	
B) Isomers D) Tautomer	
Q.99 Polyvinyl chloride is an example of:	
A) Addition polymer	
B) Condensation polymer D) Thermosetting polymer	
Q.100 Terylene, a polyester is an example of:	
A) Biopolymer C) Condensation polymer B) Lipids D) Addition polymer	
b) Lipids	
Q.101 The suspected liver carcinogen which also has negative reproduction and deve	lopmental effect
on humans is:	
A) Iodoform C) Tropoform	
A) Iodoform B) Bromoform D) Chloroform	
B) Bromoform D) Chloroform	
B) Bromoform       D) Chloroform         Q.102       Peroxyacetyl nitrate is an irritant to human beings and it effects:	
B) Bromoform D) Chloroform	
B) Bromoform       D) Chloroform         Q.102       Peroxyacetyl nitrate is an irritant to human beings and it effects:         A) Nose       C) Ears	
B) BromoformD) ChloroformQ.102Peroxyacetyl nitrate is an irritant to human beings and it effects: A) Nose B) StomachC) Ears D) Eyes	
B) Bromoform       D) Chloroform         Q.102       Peroxyacetyl nitrate is an irritant to human beings and it effects:         A) Nose       C) Ears	
B) Bromoform D) Chloroform Q.102 Peroxyacetyl nitrate is an irritant to human beings and it effects: A) Nose C) Ears B) Stomach D) Eyes ENGLISH	
B) BromoformD) ChloroformQ.102Peroxyacetyl nitrate is an irritant to human beings and it effects: A) Nose B) StomachC) Ears D) Eyes	
B) Bromoform D) Chloroform Q.102 Peroxyacetyl nitrate is an irritant to human beings and it effects: A) Nose C) Ears B) Stomach D) Eyes ENGLISH Q.103 She managed toa ticket for the cricket match.	
B) Bromoform D) Chloroform Q.102 Peroxyacetyl nitrate is an irritant to human beings and it effects: A) Nose B) Stomach D) Eyes ENGLISH Q.103 She managed toa ticket for the cricket match. A) Procure C) Improvise B) Obscure D) Preclude	
B) Bromoform D) Chloroform Q.102 Peroxyacetyl nitrate is an irritant to human beings and it effects: A) Nose C) Ears B) Stomach D) Eyes ENGLISH Q.103 She managed to a ticket for the cricket match. A) Procure C) Improvise B) Obscure D) Preclude Q.104 Things have got out of hand; we must take steps to the situation	
B) Bromoform D) Chloroform Q.102 Peroxyacetyl nitrate is an irritant to human beings and it effects: A) Nose B) Stomach D) Eyes ENGLISH Q.103 She managed toa ticket for the cricket match. A) Procure D) Preclude B) Obscure D) Preclude Q.104 Things have got out of hand; we must take steps tothe situation A) Rectify C) Purify	
B) Bromoform D) Chloroform Q.102 Peroxyacetyl nitrate is an irritant to human beings and it effects: A) Nose C) Ears B) Stomach D) Eyes ENGLISH Q.103 She managed to a ticket for the cricket match. A) Procure C) Improvise B) Obscure D) Preclude Q.104 Things have got out of hand; we must take steps to the situation	
<ul> <li>B) Bromoform D) Chloroform</li> <li>Q.102 Peroxyacetyl nitrate is an irritant to human beings and it effects:         <ul> <li>A) Nose</li> <li>B) Stomach</li> <li>D) Eyes</li> </ul> </li> <li>Q.103 She managed toa ticket for the cricket match.             <ul> <li>A) Procure</li> <li>C) Improvise</li> <li>B) Obscure</li> <li>D) Preclude</li> </ul> </li> <li>Q.104 Things have got out of hand; we must take steps to the situation A) Rectify             <ul> <li>B) Pacify</li> <li>C) Purify</li> <li>D) Testify</li> </ul> </li> <li>Q.105 George Orwell's animal farm is a stinging on the Russian revolution</li> </ul>	
B) Bromoform D) Chloroform Q.102 Peroxyacetyl nitrate is an irritant to human beings and it effects: A) Nose C) Ears B) Stomach D) Eyes ENGLISH Q.103 She managed toa ticket for the cricket match. A) Procure C) Improvise B) Obscure D) Preclude Q.104 Things have got out of hand; we must take steps tothe situation A) Rectify B) Pacify D) Testify Q.105 George Orwell's animal farm is a stingingon the Russian revolution A) Myth C) Fallacy	
<ul> <li>B) Bromoform D) Chloroform</li> <li>Q.102 Peroxyacetyl nitrate is an irritant to human beings and it effects:         <ul> <li>A) Nose</li> <li>B) Stomach</li> <li>D) Eyes</li> </ul> </li> <li>Q.103 She managed toa ticket for the cricket match.             <ul> <li>A) Procure</li> <li>C) Improvise</li> <li>B) Obscure</li> <li>D) Preclude</li> </ul> </li> <li>Q.104 Things have got out of hand; we must take steps to the situation A) Rectify             <ul> <li>B) Pacify</li> <li>C) Purify</li> <li>D) Testify</li> </ul> </li> <li>Q.105 George Orwell's animal farm is a stinging on the Russian revolution</li> </ul>	
B) Bromoform       D) Chloroform         Q.102       Peroxyacetyl nitrate is an irritant to human beings and it effects:         A) Nose       C) Ears         B) Stomach       D) Eyes         Q.103       She managed toa ticket for the cricket match.         A) Procure       C) Improvise         B) Obscure       D) Preclude         Q.104       Things have got out of hand; we must take steps tothe situation         A) Rectify       D) Testify         B) Pacify       D) Testify         Q.105       George Orwell's animal farm is a stingingon the Russian revolution         A) Myth       C) Fallacy         B) Satire       D) Legend	ual talavisias
<ul> <li>B) Bromoform</li> <li>Q.102</li> <li>Peroxyacetyl nitrate is an irritant to human beings and it effects: <ul> <li>A) Nose</li> <li>B) Stomach</li> <li>C) Ears</li> <li>D) Eyes</li> </ul> </li> <li>Q.103 She managed toa ticket for the cricket match. <ul> <li>A) Procure</li> <li>B) Obscure</li> <li>C) Improvise</li> <li>D) Preclude</li> </ul> </li> <li>Q.104 Things have got out of hand; we must take steps tothe situation <ul> <li>A) Rectify</li> <li>B) Pacify</li> <li>C) Purify</li> <li>D) Testify</li> </ul> </li> <li>Q.105 George Orwell's animal farm is a stingingon the Russian revolution <ul> <li>A) Myth</li> <li>B) Satire</li> <li>C) Fallacy</li> <li>D) Legend</li> </ul> </li> </ul>	al television
B) Bromoform       D) Chloroform         Q.102       Peroxyacetyl nitrate is an irritant to human beings and it effects:         A) Nose       C) Ears         B) Stomach       D) Eyes         ENGLISH         Q.103       She managed toa ticket for the cricket match.         A) Procure       C) Improvise         B) Obscure       D) Preclude         Q.104       Things have got out of hand; we must take steps to the situation         A) Rectify       C) Purify         B) Pacify       D) Testify         Q.105       George Orwell's animal farm is a stinging on the Russian revolution         A) Myth       D) Legend         Q.106       All the and ceremony of the royal wedding was telecast on the nation circuit.	al television
<ul> <li>B) Bromoform</li> <li>Q.102</li> <li>Peroxyacetyl nitrate is an irritant to human beings and it effects: <ul> <li>A) Nose</li> <li>B) Stomach</li> <li>C) Ears</li> <li>D) Eyes</li> </ul> </li> <li>Q.103 She managed toa ticket for the cricket match. <ul> <li>A) Procure</li> <li>B) Obscure</li> <li>C) Improvise</li> <li>D) Preclude</li> </ul> </li> <li>Q.104 Things have got out of hand; we must take steps tothe situation <ul> <li>A) Rectify</li> <li>B) Pacify</li> <li>C) Purify</li> <li>D) Testify</li> </ul> </li> <li>Q.105 George Orwell's animal farm is a stingingon the Russian revolution <ul> <li>A) Myth</li> <li>B) Satire</li> <li>C) Fallacy</li> <li>D) Legend</li> </ul> </li> </ul>	al television

### Page 12 of 19

SPOT THE ERROR: In the following sentences, some segments of each sentence are underlined. Your task is to identify that underlined segment of the sentence, which contains the mistake that needs to be corrected. Fill the Circle corresponding to that letter under the segment in the MCQ Response From.

- Q.107The patient's blood analysis shows that there is a big number of amorphous cells which are quiet unidentifiable.A)B)C)D)
- **Q.108** The police, in their investigation, used coercive <u>measure to</u> get favorable statement <u>from the accused</u>. A) B) C) D)
- Q.109Your argument is simply abstruse as there is no clarity of thought and coherence in ideas and it alsoLack vision.A)B)C)D)
- Q.110The workers were raising much hue and cry when their demands were turned away.A)B)C)D)
- Q.111The disease is uncurable without the judicious use of antibiotics.A)B)C)D)
- Q.112The younger sister hopes to emulate her elder sister's sporting achievement as she is putting up hectic effort.A)B)C)D)

### In each of the following question, four alternative sentences are given. Choose the CORRECT one and fill the Circle corresponding to that letter in the MCQ Response Form.

### Q.113

- A) The government should accrue taxes for strengthen the economy of the country.
- B) The government should accrue taxes in strengthen the economy of the country.
- C) The government should accrue taxes to strengthen the economy of the country.
- D) The government should accrue taxes by strengthen the economy of the country.

### Q.114

- A) Foreign trade have assumed greater importance in recent years.
- B) Foreign trade is assumed greater importance in recent years.
- C) Foreign trade has assumed greater importance in recent years.
- D) Foreign trade shall assumed greater importance in recent years.

### Q.115

- A) The space programme has been battered in bureaucratic wrangling.
- B) The space programme has been battered into bureaucratic wrangling.
- C) The space programme has been battered by bureaucratic wrangling.
- D) The space programme has been battered to bureaucratic wrangling.

### Q.116

- A) He will has to deal with the problem by showing adroitness.
- B) He will have to deal with the problem by showing adroitness.
- C) He will had to deal with the problem by showing adroitness.

D) He will having to deal with the problem by showing adroitness.

### Q.117

A) He does possesses altruistic behavior.B) He does possess altruistic behavior.

### Q.118

- A) He has great affinity in nature.
- B) He has great affinity with nature.

### Q.119

- A) He stands on arms akimbo.
- B) He stands to arms akimbo.

- C) He does possessing altruistic behavior. D) He does possessed altruistic behavior.
- C) He has great affinity by nature.
- D) He has great affinity at nature.
- C) He stands with arms akimbo.
- D) He stands through arms akimbo.

- Q.120
- A) An amorphous mass of cells are difficult to understand.B) An amorphous mass of cells were difficult to understand.C) An amorphous mass of cells had difficult to understand.D) An amorphous mass of cells is difficult to understand.

### Q.121

A) He is suffering to anaphylactic shock.B) He is suffering in anaphylactic shock.

C) He is suffering from anaphylactic shock.D) He is suffering into anaphylactic shock.

#### Q.122

MUCE

- A) If you had asked him, he would had accepted the offer with alacrity.
- B) If you had asked him, he would have being accepted the offer with alacrity.
- C) If you had asked him, he would have accepted the offer with alacrity.

D) If you had asked him, he would been accepted the offer with alacrity.

In each of the following question, four alternative meanings of a word are given. You have to select the NEAREST CORRECT MEANING of the given word and fill the appropriate Circle on the MCQ Response Form.

Q.123	MUSE A) Wander B) Fonder	C) Robust D) Ponder
Q.124	FECKLESS A) Useless B) Careless	C) Dauntless D) Fearless
Q.125	MOSAIC A) Pattern B) Mortal	C) Ordinary D) Musical
Q.126	INSCRUTABLE A) Immoral B) Unethical	C) Enigmatic D) Unaccountable
Q.127	JUXTAPOSE A) Justify B) Compare	C) Expose D) Jettison
Q.128	LACERATING A) Landing B) Tearing	C) Flagging D) Lactating
Q.129	EMPATHY A) Fictitious B) Facility	C) Ability D) Felicity
Q.130	<b>EVANESCENT</b> A) Evident B) Permanent	C) Event D) transitory
Q.131	SIDLE A) Sneak B) Sift	C) Sledge D) Sieve
Q.132	<b>DISSONANCE</b> A) Inconsistency B) Expansion	C) Perceptible D) WrapPart

## **BIOLOGY**

Q.133	cell; stage is known as	formed and two nuclei are the two poles of the	
	A) Prophase B) Metaphase	C) Telophase D) Anaphase	
Q.134	Mental retardation, short stature, broad face a	and squint eves are the symptoms of	
<b>4</b>	A) Down's syndrome	C) Turner's syndrome	
	B) Klinefelter's syndrome	D) XYZ syndrome	
		1	
Q.135	Chiasmata formation takes place during the pr A) Crossing Over	C) Pairing	
	B) Attachment	D) Leptotene	
Q.136	Healing of a wound and repair is the phenome A) Mitosis	C) Cell Growth	
	B) Meiosis	D) Mitosis & Meiosis	
0 127	Which one of the following is the main cause	of concor?	
Q.137	A) Mutation	C) Regulated Mitosis	
	B) Controlled Cell Division	D) Haploid Division	
Q.138	The covalent bond formed between two mono		
	A) Glycosidic Bond B) Hydrogen Bond	C) Peptide Bond D) Disulphide	
	b) Hydrogen bond	D) Disciplifice	
Q.139	The bond formed between glucose and fructos		
	A) 1,4 Glycosidic Linkage	C) 1,6 Glycosidic Linkage	
	B) 1,2 Glycosidic Linkage	D) 1,3 Glycosidic Linkage	
Q.140	In an amino acid in which the R-group is H, its name will be A) Alanine C) Leucine		
	B) Glycine	D) Valine	
Q.141		ng hydrogen, oxygen and one of the following are	
	A) -COOH B) -NH2	C) Acyl D) Sucrose	
		D) Suciose	
Q.142	Posomes are used in gene therapy against		
	A) Hypercholesterolemia	C) Cystic Fibrosis	
	B) Coronary Artery Angioplasty	D) Severe Combined Immunodeficiency Syndrome (SCID)	
Q.143	Genetically engineered cells are introduced in		
	A) Hypercholesterolemia	C) Cystic Fibrosis	
	B) Severe Combined Immunodeficiency Syndrome	D) Coronary Artery Angioplasty	
	(SCID)		
Q.144	Which one of the following is depleting and ca		
	A) Chlorine	C) Chlorofluorocarbon	
	B) Bromine	D) Carbon	
Q.145	The typical environment of a particular organi	sm population community is called	
<b>L</b>	A) Niche	C) Habitat	
	B) Ecosystem	D) Biosphere	
Q.146.		by human activity by which large amount of living	
	organic matter grows is called	() Enrichmont	
	A) Archeotrophication B) Eutrophication	C) Enrichment D) Low Trophication	

Q.147	In an ecosystem, mycorrhizae is an example o	
	A) Symbiosis	C) Commensalism
	B) Predation	D) Parasitism
Q.148	Successive stages of eating and being eaten by	which recycling of materials and flow of energy
Q.140	takes place is called	which recycling of matchais and now of chergy
	A) Food Chain	C) Trophic Level
	B) Food Web	D) Food Link
Q.149	The sex of individuals of next generation alwa	ys depends on one of the parents who is
-	A) Heterogametic	C) Isogametic
	B) Homogametic	D) Isomorphic
Q.150	Which of the following will be hemophilic?	
	A) X <sup>H</sup> X <sup>h</sup>	C) X <sup>h</sup> Y
	B) X <sup>H</sup> X <sup>H</sup>	D) X <sup>H</sup> Y
Q. 151	Which of the following is an example of X-link	ed recessive trait in humans?
Q. 151	A) Hypophospatemic Rickets	C) Baldness
	B) Colour Blindness	D) Beard Growth
	b) colour bindness	b) beard Growar
Q.152	Which trait in human in an example of multiple	e alleles?
L -	A) Eye Colour	C) ABO-Blood Group
	B) Skin Colour	D) Rh-Blood Group
Q.153		nother gene at another locus, the interaction is
	called	
	A) Dominance	C) Pleiotropy
	B) Multiple Alleles	D) Epistasis
Q.154	The combination of a pentose sugar with a bas	se result in a compound is known as
Q.154	A) Nucleotide	C) Nucleic Acid
	B) Nucleoside	D) Polynucleotide
	b) Nucleoside	
Q.155	An enzyme and substrate reacts through a spe	cial feature or site present in enzyme:
	A) Building Site	C) Catalyst Site
	B) Active Site	D) Inhibition Site
Q.156	The non-protein part of enzyme which is coval	
	A) Prosthetic Group	C) Co-Enzyme
	B) Co-Factor	D) Activator
Q.157	One of the pyrimidine bases is absent in DNA	
Q.157	A) Uracil	C) Cytosine
	B) Thymine	D) Adenine
	b) minine	
Q.158	Enzymes increase the rate of reaction by	
-	A) Increasing Temperature	C) Decreasing Activation Energy
	B) Decreasing pH	D) Increasing Activation Energy
Q.159	Which one of the following diseases caused by	enveloped RNA virus and spread in epidemic
	form?	C) Dalia
	A) Influenza	C) Polio
	B) Herpes Simplex	D) Small Pox
Q.160	The structure which contains the gene for drug	g resistance bacteria are
2.200	A) Nucleoids	C) Chromatin Bodies
	B) Mesosomes	D) Plasmids
	_,	_ ,
Q.161	Antibiotics that kill microbes immediately are	called
-	A) Microbistatic	C) Biostatic
	B) Microbicidal	D) Chemotherapeutic
	-,	-,

Q.162	Which one of the following fungi causes A) Candida	vaginal thrush? C) Tortula		
	B) Aspergillus	D) Penicillium		
Q.163	Body cavity of round worms is called			
-	A) Pseudocoelom	C) Acoelom		
	B) Coelom	D) Enteron		
Q.164	Fasciola is endoparasite of			
	A) Colon	C) Small Intestine		
	B) Liver	D) Bile Duct		
Q.165	Trypanosoma is transmitted in human b			
	A) Plasmodium	C) House Fly		
	B) Anopheles	D) Tsetse Fly		
Q.166		h of the following layer during embryonic developme		
	of animals			
	A) Mesoderm	C) Endoderm		
	B) Ectoderm	D) Mesoderm and Endoderm		
Q.167	Endosperm is formed as a result of			
	A) Pollination	C) Double Fertilization		
	B) Self-Pollination	D) Cross Pollination		
Q.168	Which of the following enzyme is released in an inactive form			
	A) Amy B) Lipase	lase C) Enterokinase D) Pepsin		
Q.169	liver?	ate the secretion of pancreatic juice from pancreas in		
	A) Secretin	C) Gastrin		
	B) Pepsinogen	D) Both Gastrin and Secretin		
Q.170	In large intestine, vitamin k is formed by the activity of			
	A) Symbiotic Bacteria	C) Parasitic Bacteria		
	B) Obligate Bacteria	D) Facultative Bacteria		
Q.171	During swallowing of food which structu	ire close nasal opening?		
	A) Hard Palate	C) Epiglottis		
	A) Hard Palate B) Soft Palate			
Q.172		C) Epiglottis D) Larynx		
Q.172	B) Soft Palate	C) Epiglottis D) Larynx		
Q.172	B) Soft Palate The right atrium of the heart usually rec	C) Epiglottis D) Larynx eives the		
Q.172 Q.173	<ul> <li>B) Soft Palate</li> <li>The right atrium of the heart usually rec</li> <li>A) Deoxygenated Blood</li> <li>B) Oxygenated Blood</li> <li>The largest lymph duct called thoracic lymph</li> </ul>	C) Epiglottis D) Larynx eives the C) Filtered Blood D) Non-Filtered Blood		
-	<ul> <li>B) Soft Palate</li> <li>The right atrium of the heart usually rec</li> <li>A) Deoxygenated Blood</li> <li>B) Oxygenated Blood</li> </ul>	C) Epiglottis D) Larynx eives the C) Filtered Blood D) Non-Filtered Blood		
-	<ul> <li>B) Soft Palate</li> <li>The right atrium of the heart usually rec</li> <li>A) Deoxygenated Blood</li> <li>B) Oxygenated Blood</li> <li>The largest lymph duct called thoracic lymph</li> </ul>	C) Epiglottis D) Larynx eives the C) Filtered Blood D) Non-Filtered Blood		
Q.173	<ul> <li>B) Soft Palate</li> <li>The right atrium of the heart usually rec</li> <li>A) Deoxygenated Blood</li> <li>B) Oxygenated Blood</li> <li>The largest lymph duct called thoracic ly</li> <li>A) Subclavian Vein</li> </ul>	C) Epiglottis D) Larynx eives the C) Filtered Blood D) Non-Filtered Blood mph duct drains into C) Pulmonary Vein D) Hepatic Portal Vein		
-	<ul> <li>B) Soft Palate</li> <li>The right atrium of the heart usually rec</li> <li>A) Deoxygenated Blood</li> <li>B) Oxygenated Blood</li> <li>The largest lymph duct called thoracic ly</li> <li>A) Subclavian Vein</li> <li>B) Renal Vein</li> </ul>	C) Epiglottis D) Larynx eives the C) Filtered Blood D) Non-Filtered Blood mph duct drains into C) Pulmonary Vein D) Hepatic Portal Vein		
Q.173	<ul> <li>B) Soft Palate</li> <li>The right atrium of the heart usually rec</li> <li>A) Deoxygenated Blood</li> <li>B) Oxygenated Blood</li> <li>The largest lymph duct called thoracic ly</li> <li>A) Subclavian Vein</li> <li>B) Renal Vein</li> <li>Which protein plays a major role in main</li> </ul>	C) Epiglottis D) Larynx eives the C) Filtered Blood D) Non-Filtered Blood wmph duct drains into C) Pulmonary Vein D) Hepatic Portal Vein		
Q.173 Q.174	<ul> <li>B) Soft Palate</li> <li>The right atrium of the heart usually rec</li> <li>A) Deoxygenated Blood</li> <li>B) Oxygenated Blood</li> <li>The largest lymph duct called thoracic ly</li> <li>A) Subclavian Vein</li> <li>B) Renal Vein</li> <li>Which protein plays a major role in main</li> <li>A) Albumin</li> <li>B) Globulin</li> </ul>	C) Epiglottis D) Larynx eives the C) Filtered Blood D) Non-Filtered Blood mph duct drains into C) Pulmonary Vein D) Hepatic Portal Vein htaining osmotic balance? C) Fibrinogen		
Q.173	<ul> <li>B) Soft Palate</li> <li>The right atrium of the heart usually rec</li> <li>A) Deoxygenated Blood</li> <li>B) Oxygenated Blood</li> <li>The largest lymph duct called thoracic ly</li> <li>A) Subclavian Vein</li> <li>B) Renal Vein</li> <li>Which protein plays a major role in main</li> <li>A) Albumin</li> <li>B) Globulin</li> <li>The type of agranulocytes which stays in</li> </ul>	C) Epiglottis D) Larynx eives the C) Filtered Blood D) Non-Filtered Blood mph duct drains into C) Pulmonary Vein D) Hepatic Portal Vein htaining osmotic balance? C) Fibrinogen D) Prothrombin		
Q.173 Q.174	<ul> <li>B) Soft Palate</li> <li>The right atrium of the heart usually rec</li> <li>A) Deoxygenated Blood</li> <li>B) Oxygenated Blood</li> <li>The largest lymph duct called thoracic ly</li> <li>A) Subclavian Vein</li> <li>B) Renal Vein</li> <li>Which protein plays a major role in main</li> <li>A) Albumin</li> <li>B) Globulin</li> <li>The type of agranulocytes which stays in become macrophages are</li> </ul>	C) Epiglottis D) Larynx eives the C) Filtered Blood D) Non-Filtered Blood mph duct drains into C) Pulmonary Vein D) Hepatic Portal Vein D) Hepatic Portal Vein ntaining osmotic balance? C) Fibrinogen D) Prothrombin		
Q.173 Q.174 Q.175	<ul> <li>B) Soft Palate</li> <li>The right atrium of the heart usually rec</li> <li>A) Deoxygenated Blood</li> <li>B) Oxygenated Blood</li> <li>The largest lymph duct called thoracic ly</li> <li>A) Subclavian Vein</li> <li>B) Renal Vein</li> <li>Which protein plays a major role in main</li> <li>A) Albumin</li> <li>B) Globulin</li> <li>The type of agranulocytes which stays in become macrophages are</li> <li>A) Lymphocytes</li> </ul>	C) Epiglottis D) Larynx eives the C) Filtered Blood D) Non-Filtered Blood mph duct drains into C) Pulmonary Vein D) Hepatic Portal Vein D) Hepatic Portal Vein ntaining osmotic balance? C) Fibrinogen D) Prothrombin t blood for a few hours and then enters tissues and C) Eosinophils D) Basophils		
Q.173 Q.174	<ul> <li>B) Soft Palate</li> <li>The right atrium of the heart usually rec</li> <li>A) Deoxygenated Blood</li> <li>B) Oxygenated Blood</li> <li>The largest lymph duct called thoracic ly</li> <li>A) Subclavian Vein</li> <li>B) Renal Vein</li> <li>B) Renal Vein</li> <li>Which protein plays a major role in main</li> <li>A) Albumin</li> <li>B) Globulin</li> <li>The type of agranulocytes which stays in become macrophages are</li> <li>A) Lymphocytes</li> <li>B) Monocyte</li> </ul>	C) Epiglottis D) Larynx eives the C) Filtered Blood D) Non-Filtered Blood mph duct drains into C) Pulmonary Vein D) Hepatic Portal Vein D) Hepatic Portal Vein ntaining osmotic balance? C) Fibrinogen D) Prothrombin t blood for a few hours and then enters tissues and C) Eosinophils D) Basophils		

Page	17	of	19
-			

Q.177	Antiduretic hormone helps in reabsorption of v A) Proximal Tubule	C) Collecting Duct
	B) Distal Tubule	D) Loop of Henle
Q.178	<b>During peritoneal dialysis, dialysis fluid is intro</b> A) Liver B) Abdomen	<b>duced into which part of human body?</b> C) Kidney D) Pancreas
Q.179	<b>Aldosterone helps in conservation or active ab</b> A) Sodium B) Calcium	sorption of C) Potassium D) Bicarbonate Ions
Q.180	<b>Maximum reabsorption takes place in which pa</b> A) Distal Tubule B) Villi	art of the nephron? C) Cortical Tissue D) Proximal Tubule
Q.181	<b>Over-activity of sympathetic nervous system c</b> A) Disturbance of Vision B) Constipation	auses C) Decrease in Blood Pressure D) Increase in Heart Rate
Q.182	Which structures respond when they are stimu A) Receptors B) Responses	lated by impulse coming through motor neuron? C) Effectors D) Transduction
Q.183	<b>Respiratory center is located in</b> A) Cerebrum	C) Medulla
	B) Cerebellum	D) Hypothalamus
Q.184	A neurological condition characterized by invol rigidity is called	
	A) Epilepsy B) Parkinson's Disease	C) Alzheimer's Disease D) Cerebullar Tumours
Q.185	A type of cell in human testes which produces A) Interstitial Cells	<b>testosterone is called</b> C) Sertoli Cells
	B) Germ Cells	D) Spermatocytes
Q.186	Breakdown of endometrium during menstruation A) Increase in Level of LH	<b>on is due to</b> C) Increase in Level of Progesterone
	B) Decrease in Level of Progesterone	D) Increase in Level of Oestrogen
Q.187	Oogonia are produced in the germ cells	
	A) Both Uterus and Cervix B) Cervix	C) Uterus D) Ovary
Q.188	Which of the following diseases can be prevent	
	A) AIDS and Cancer B) Malaria and AIDS	C) Typhoid and Cancer D) Measles and Mumps
Q.189	Newly produced cells/individuals which are ide	
	A) Genetically Modified B) Transgenic Animals	C) Transgenic Bacteria D) Clones
Q.190	Which of the following is a blood borne disease	
	A) Hepatitis B) Cholera	C) Influenza D) Candidiasis
Q.191		ulation by natural enemies, predators, parasites
	and pathogens. This type of control is known as A) Cultural Control B) Biological Control	s C) Pesticides Control D) Insecticides Control

Q.192	Which of the following organelles is concerned with the cell secretion         A) Ribosomes       C) Lysosomes			
	B) Golgi Apparatus	D) Mitochondria		
Q.193	Which of the following contains peptid	loglycan cell wall?		
	A) Penicillium	C) Adiantum		
	B) Bacterium	D) Polytrichum		
Q.194	The inner membrane of mitochondria i	is folded to form finger like structure called		
21231	A) Cristae	C) Matrix		
		D) Cisternae		
	B) Vesicle	D) Cisterride		
Q.195		eterogeneous structure, embedded in the matrix known as		
	A) Grana	C) Thylakoids		
	B) Stroma	D) Cisternae		
Q.196	In which phase of the cell division the A) Mitosis	metabolic activity of the nucleus is high? C) Meiosis		
	B) Interphase	D) Cell Cycle		
0 107				
Q.197	Luteinizing hormone triggers			
	A) Cessation of Oogenesis	C) Ovulation		
	B) Breakdown of Oocyte	D) Development of Zygote		
Q.198	Syphilis is a sexually transmitted disea			
	A) HIV / AIDS	C) Treponema Pallidum		
	B) Pseudomonas Pyogenes	D) Neisseria		
Q.199	Muscle is made up of many cells which are referred to as			
-	A) Myofilaments	C) Sarcolemma		
	B) Myofibrils	D) Muscles Fiber		
Q.200	The length of myofibril from one Z-band to the next is known as			
L	A) Sarcomere	C) Sarcoplasm		
	B) Sarcolemma	D) Muscle Fiber		
Q.201	Calcium ions released during a muscle fiber contraction attach with			
Q.201	A) Myosin	C) Tropomyosin		
	B) Actin	D) Troponin		
Q.202		accumulation of lactic acid and ionic imbalance is:		
	A) Tetany	C) Cramp		
	B) Muscle Fatigue	D) Tetanus		
Q.203	The pigment which stores oxygen in m			
	A) Hemoglobin	C) Myosin		
	B) Myoglobin	D) Actinomyosin		
Q.204	Neurosecretory cells are present in wh	nich part of brain		
	A) Hypothalamus	C) Pons		
	B) Midbrain	D) Cerebellum		
0 205		of alwaysan bermana?		
Q.205	Which of the following is the function			
	A) Glycogen to Glucose	C) Glucose to Lipids		
	B) Glucose to Glycogen	D) Glucose to Proteins		
Q.206	Addison's disease is caused due to des	struction of		
-	A) Adrenal Cortex	C) Adrenal Medulla		
	B) Pituitary Adrenal Axis	D) Hypothalamus		
Q.207	Which group of hormones is made up o	of amino acids and their derivatives?		
2.207	A) Vasopressin and ADH	C) Osterogen and Testosterone		
		D) Insulin and Glucagon		
	B) Epinephrine and Non-Epinephrine			

		Fuge 15 of 15	
Q.208	Thymus gland is involved in maturation of		
	A) Platelets	C) Eosinophils	
	B) B-Lymphocytes	D) T-Lymphocytes	
Q.209	In passive immunity which of the following c	component are injected into blood	
<b>4</b>	A) Antigens	C) Serum	
	B) Immunogens	D) Immunoglobulins	
	b) ininanogens		
Q.210	Mucous membranes are part of body defense	system and they offer	
	A) Physical Barriers	C) Chemical Barriers	
	B) Mechanical Barriers	D) Biological Barriers	
Q.211	Immediate protection is obtained from		
	A) Passive Immunity	C) Vaccination	
	B) Active Immunity	D) Natural Activity Immunity	
Q.212	The immunity in which T-cells recognize the	antigens or micro-organisms is known as	
Q.212	A) Tissue Grafting	C) Cell Mediated Immunity / Response	
	B) Phagocytosis	D) Hormonal Immunity / Response	
	B) Phagocytosis	D) Hormonal Infinduncy / Response	
Q.213	Oxidative phosphorylation, synthesis of ATP in the presence of oxygen occurs in:		
-	A) All Types of Cells	C) All Primitive Cells	
	B) All Anaerobic Cells	D) All Aerobic Cells	
	,		
Q.214	Glycolysis is the breakdown of glucose into t	wo molecules of	
	A) Glycerate	C) Pyruvate	
	B) Lactic Acid	D) Succinic Acid	
0.045	Defense on the size of the second states in the sec		
Q.215	Before entering Krebs's cycle, the pyruvate is		
	A) Alpha Ketoglutaric Acid	C) Glyceric Acid	
	B) Citric Acid	D) Acetic Acid	
Q.216	Some electron from the second prim <mark>a</mark> ry acceptor may pass back to chlorophyll molecules by		
-	electron carrier system, yielding ATP. This pro		
	A) Phosphorylation	C) Non-Cyclic Phosphorylation	
	B) Photophosphorylation	D) Cyclic Phosphorylation	
Q.217	Z-scheme is used for		
	A) Non-Cyclic Photophosphorylation	C) Both Cyclic and Non-Cyclic Photophosphorylation	
	B) Cyclic Photophosphorylation	D) Oxidative Phosphorylation	
Q.218	The common vectors used in recombinant DN	lA technology are	
Q.210	A) Probes	C) Plasmids	
	B) Palindromes	D) Prions	
	b) Painuronies	D) FIIOIIS	
Q.219	The enzyme used to isolate gene from DNA is		
-	A) Helicase	C) Restriction Enzyme	
	B) Reverse Transcriptase	D) DNA Polymerase	
Q.220	Which one of the following enzymes is tempe A) DNA Polymerase I	c) DNA Polymerase III	
		, ,	
	B) Taq Polymerase	D) RNA Polymerase	
	(MCAT Preparation	ns 2017 - ARK)	
	(Copyright Protected MCAT P		

# (MCAT Preparations 2017 - ARK) (Copyright Protected MCAT Preparations 2017 - ARK)

### **MBBS.COM.PK**

UHS MDCAT PAST PAPERS BOOK Hard Copy Available Now.



Page 1 of 19

### **University of Health Sciences, Lahore**



Total MCQs: 220

Max. Marks: 1100

### ENTRANCE TEST - 2012 For F.Sc. and Non-F.Sc. Students <u>Time Allowed: 150 minutes</u>

### Instructions:

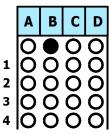
- i. Read the instructions on the MCQs Response Form carefully.
- ii. Choose the Single Best Answer for each question.
- iii. Candidates are strictly prohibited from giving any identification mark except Roll No. & Signature in the specified columns only.

## **COMPULSORY QUESTION FOR IDENTIFICATION**

**Q-ID.** What is the color of your Question Paper? A) White. C) Pink.

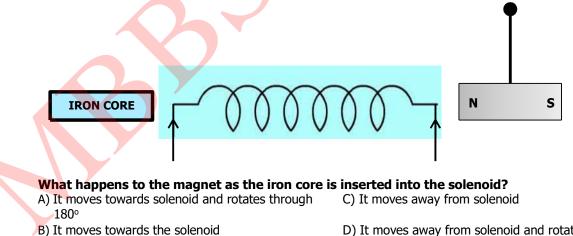
B)

**<u>Blue.</u>** D) Green. **ID** Ans: Colour of your Question Paper is Blue. Fill the Circle Corresponding to Letter 'B' against 'ID' in your MCQ response form (Exactly as shown in the diagram).



### **PHYSICS**

Q.1 The diagram shows a small magnet hanging on a thread near the end of a solenoid carrying a steady current 'I':



1 tes towards the solenoid

D) It moves away from solenoid and rotates through  $180^{\circ}$ 

# Q.2 A 10 cm long solenoid has 100 turns. What will be the magnetic field inside it along its axis if one micro ampere current is passed through it?

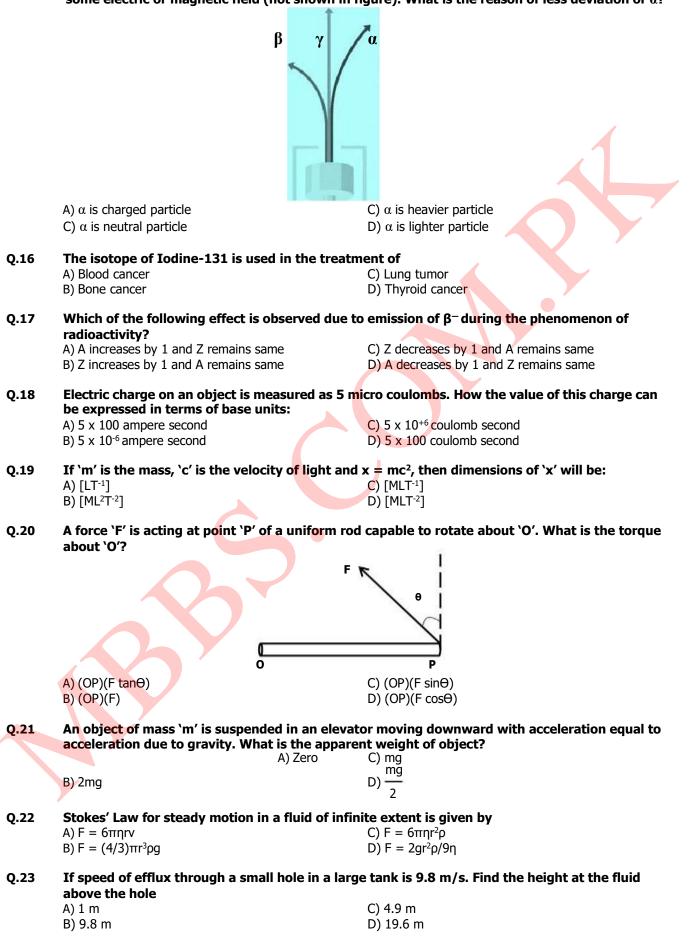
A) 4π x 10<sup>-13</sup> tesla B) 4π x 10<sup>-7</sup> tesla C)  $4\pi \times 10^{-10}$  tesla D)  $4\pi \times 10^{-16}$  tesla Page 2 of 19

Q.3 Two long straight parallel wires held vertically have equal but opposite currents as shown in the figure.

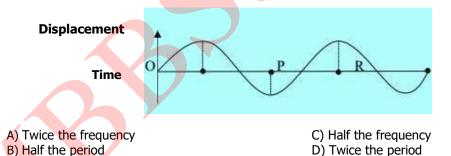
	I	
	• • • • • • • • • • • • • • • • • • •	¥ • z
	Which of the following effect will be observed? A) Magnetic field at 'X' is stronger than that at 'Y' and B) Magnetic field at 'X' is weaker than that at 'Y' and C) Magnetic field at 'X', 'Y' and 'Z' is same D) Magnetic field at 'X' is weaker than that at 'Y' but	d 'Z' 'Z'
Q.4	The kinetic energy K.E. with which the electro A) K.E. = $e^2V$ B) K.E. = $hc/\lambda$	n strikes the target is given by: C) K.E. = hf <sup>2</sup> D) K.E. = eV
Q.5	<b>LASER is an acronym for:</b> A) Light amplification by stimulated emission of radia B) Light annihilation by stimulated emission of radiat C) Light amplitude of stimulated emission of radiation D) Light amplification by stimulated emission of radio	ion
Q.6	X-rays can be produced by bombardment of A) Protons B) Electrons	on target metal: C) Neutrons D) Alpha particles
Q.7	Laser light is monochromatic which means A) It consists of one ray of light B) It consists of one wavelength	C) It consists of carbon monoxide gas D) It consists of photons having 1 eV energy
Q.8	If an electron in the 'K' shell is removed and ar in the 'K' shell, it emits a photon of energy: A) $hf_{K\alpha} = E_L - E_K$ B) $hc = E_L - E_K$	c) $h/\lambda \kappa \alpha$ = E <sub>L</sub> - E <sub>K</sub> D) $h/\kappa \alpha$ = E <sub>K</sub> - E <sub>L</sub>
Q.9	Which of the following property must be there X-ray tube? A) It must have low melting point B) It must have low atomic number	in a substance so that it can be used as target in C) It must have high reflecting ability D) It must have high atomic number
Q.10	Which of the following can be used to produce A) Optical pumping B) Optical fibre	e population inversion for the emission of Laser? C) Optical instrument D) Optical polarization
Q.11	What is the charge on alpha particles emitted A) +e B) -e	during the phenomenon of radioactivity? C) -2e D) +2e
Q.12	A radioactive nuclide decays by emitting an alg photon, the change in the nucleon number will A) -4 B) -1	
Q.13	A half-life of sodium-24 iswhich is us A) 6 hours B) 15 hours	<b>Sed to estimate the volume of blood in a patient:</b> C) 8 hours D) 15 days
Q.14	<b>Which of the following is unit of absorbed dose</b> A) Sievert B) Gray	e? C) Roentgen D) Curie

#### Page 3 of 19

Q.15 In a radioactive phenomenon observation shown in figure where a deviates lesser than  $\beta$  in some electric or magnetic field (not shown in figure). What is the reason of less deviation of  $\alpha$ ?



Page 4	4 of 19		
Q.24	Flow speed of the fluid through a non-uniform pipe increases from 1 m/sec to 3 m/sec. If change in P.E. is zero, then pressure difference between two points will be: (density of the fluid = $1000 \text{ kg/m}^3$ )		
	A) 1000 N/m <sup>2</sup> B) 9000 N/m <sup>2</sup>	C) 8000 N/m <sup>2</sup> D) 4000 N/m <sup>2</sup>	
Q.25	<b>Polarization of light exhibited the na</b> A) Longitudinal wave B) Compressional wave	<b>ture of light as</b> C) Transverse wave D) Electromagnetic wave	
Q.26	<b>The concentration of a sugar solution</b> A) Un-polarized light B) Plane polarized light	n can be determined by C) Interference of light D) Diffraction of light	
Q.27	<b>The information from one place to an</b> A) Copper wire B) Aluminium wire	nother can be transmitted very safely and easily by: C) Photodiode D) Optical fibre	
Q.28	when it is at the	the focal length of a convex lens will be largest and clearest	
	A) Less than 25 cm B) Near point	C) Greater than 25 cm D) Infinity	
Q.29 A simple harmonic oscillator has a time period of 10 seconds. Which equation 'a' and displacement 'x'? $2\pi^2$			
	A) a = -2 x	$2\pi^{2}$ C) $a = -(\frac{10}{10})x$ D) $a = -(20\pi)^{2}x$	
	B) $a = -(20\pi)x$	D) $a = -(20\pi)^2 x$	
Q.30	When the length of a simple pendulu frequency?	m is doubled, find the ratio of the new frequency to the old	
	A) 1/4	C) √2	
	B) 1/2	D) 1/√2	
Q.31	In the diagram below, the <mark>dis</mark> placen does the length <b>`PR</b> ' on the time axis	nent of an oscillating particle is plotted against time. What represents?	



Q.32 When the source of sound moves towards the stationary observer, the value of apparent frequency `f\_o' is:

A) $f_{o} = ($	<u>v+u</u> ) f	
B) f = (	v v−ui) f	

### Q.33 The ratio of tensile strength to tensile strain is called

A) Modulus of elasticity B) Bulk Modulus C) Young's Modulus

 $C) f_{o} = \left( \underbrace{\frac{V}{V+u_{i}}}_{V+u_{i}} \right) f$ 

D)  $f = \begin{pmatrix} v - ui \\ v \end{pmatrix} f$ 

D) Shear Modulus

- **Q.34** A wire is stretched by a force 'F' which causes an extension  $\Delta I$ , the energy stored in the wire is: A) F $\Delta I$  C)  $\frac{1}{2}$  F $\Delta I^2$ 
  - Α) FΔl B) 2FΔl

C) 1/2 FΔl

Q.36	<ul> <li>massive than hydrogen. Root mean square</li> <li>A) 4 root mean square of oxygen</li> <li>B) <sup>1</sup>/<sub>4</sub> root mean square of oxygen</li> <li>Which of the following is expression of n cylinder?</li> <li>A) v1+ v2++ vx</li> <li>A) N</li> <li>N</li> <li>B) <sup>v12+v22++ vx2</sup></li> </ul>	C) 1/16 root mean square of oxygen D) 1/6 root mean square of oxygen mean square speed of 'N' gas molecules contained in a $C)\sqrt{\frac{v_1+v_2++v_x}{v_1+v_2++v_x}}$
Q.36	Which of the following is expression of n cylinder? A) $\frac{v_{1+}v_{2++}v_{x}}{N}$	nean square speed of 'N' gas molecules contained in a
Q.36	$\frac{\text{cylinder?}}{N}$ A) $\frac{V_{1+}V_{2+}+V_{X}}{N}$	
	A) $\frac{v_{1}+v_{2}++v_{x}}{N}$	$C)\sqrt{\frac{41+42+\dots+4x}{N}}$
	N N	C)V
		N
		<u></u>
	B) N	D) $\sqrt{v_{12} + v_{22} + \dots + v_{x2}}$ N
Q.37	If `Q' is the amount of heat supplied to a s energy can be defined as	system and `W' is the work done, then ch <mark>an</mark> ge in interna
	A) Q/W	C) W/Q
	B) Q - W	D) 1 + Q/W
Q.38		cond law of thermodynamics rejects one fourth of the voir. What is the percentage efficiency of heat engine C) 50% D) 75%
~ ~~		
Q.39	First law of thermodynamics under adiat $A) Q = W$	batic conditions can be mathematically written as: C) Q = U + W
		D) $W = \Delta U$
	<i>,</i> -	
Q.40	What is the logic symbol for a NOT Gate?	?
	A)	C)
	в)	D)
Q.41	The voltage that is applied across X-plate A) Audio generator	C) Signal generator
	B) Time base generator	D) Linear generator
Q.42	what will be the effect on the capacitant separation between the plates is halved?	ce of a capacitor if area of each plate is doubled while
	A) Capacitance remains same	- C) Capacitance becomes four times
	B) Capacitance becomes double	D) Capacitance reduces to half
Q.43		is the plate of 1 $\mu$ F capacitor. What is the energy storied
	in capacitor? A) 0.5 mJ	C) 5 mJ
	B) 0.05 mJ	D) 50 mJ
	Which one of the following is I-V curve of the following is I-V	of a junction diode?
Q.44		
Q.44		ıî / ıî
Q.44	▲ ▲	
Q.44	▲ ▲	
Q.44		$\downarrow$ $\downarrow$ $\downarrow$ $\downarrow$ $\downarrow$ $\downarrow$ $\downarrow$
Q.44	▲ ▲	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Q.44		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Q.44		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

Page 5 of 19

### Page 6 of 19

A) OH-

B) P

A) 1

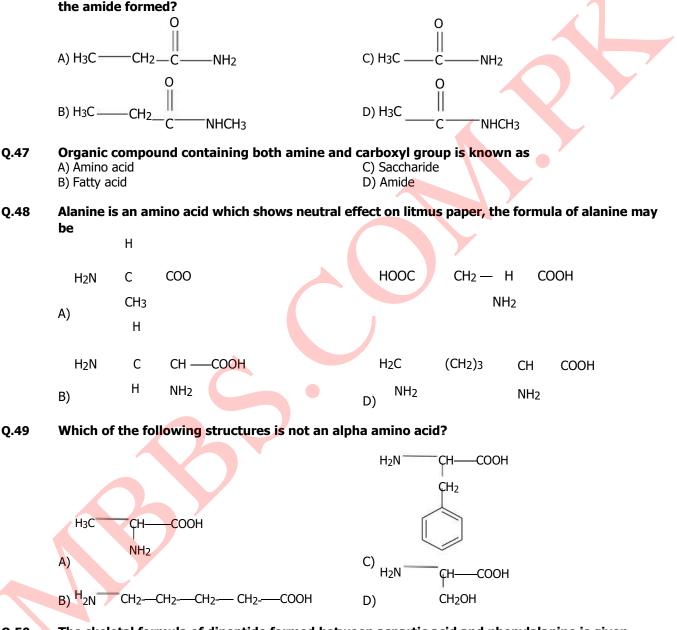
B) 2

### <u>CHEMISTRY</u>

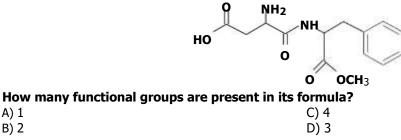
Q.45 In the below reaction the nucleophile which attacks on the carbon atom of acid is:

> CH<sub>3</sub>COOH + PCI<sub>5</sub> -C) Cl-D) H-

Q.46 When ethanol chloride reacts with methylamine, an amide is formed. What is the structure of the amide formed?



Q.50 The skeletal formula of dipeptide formed between aspartic acid and phenylalanine is given below:

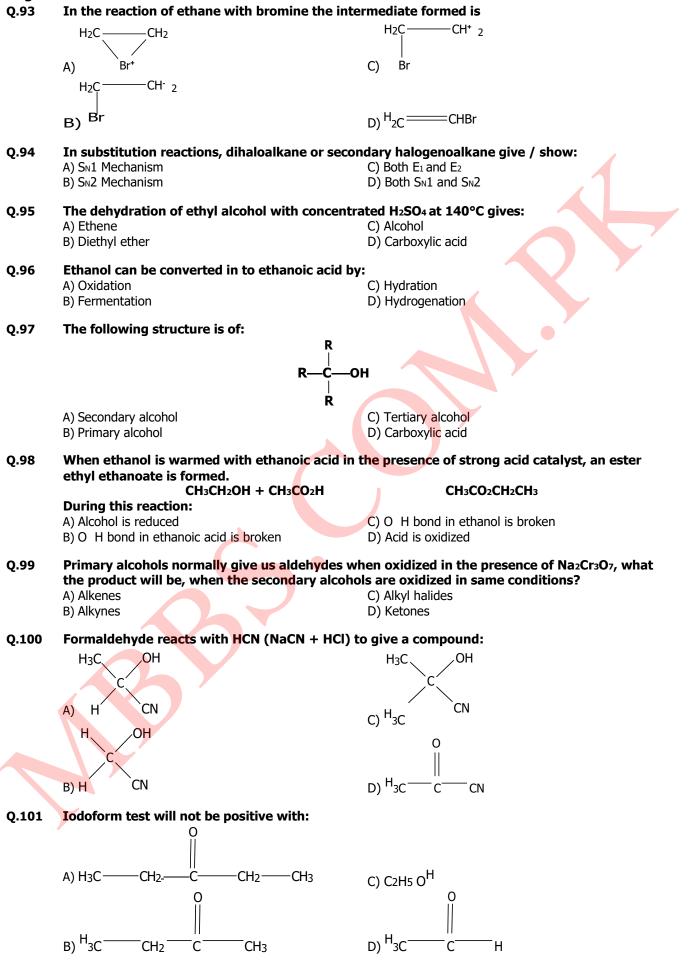


	In basic conditions, amino acid exist	-		
	A) H <sub>3</sub> N <sup>+</sup> CH <sub>2</sub> COOH	C) <sup>H</sup> <sub>3N</sub> +CH <sub>2</sub> COO <sup>-</sup>		
	B) H <sub>2</sub> N ————————————————————————————————————	D) <sup>H</sup> <sub>2</sub> N ————————————————————————————————————		
2.52	Structure of dipeptide is			
		<b>O</b> 		
	H <sub>2</sub> N —CH <sub>2</sub>	СNH-НС,СООН		
		CH <sub>3</sub>		
	This is called:			
	A) Glycyl glycine	C) Alaninyl alanine		
	C) Glycyl alanine	D) Alaninyl glycine		
2.53	The principle energy storage carboh	vdrate in animal's is		
2.33	A) Glucose	C) Protein		
	B) Starch	D) Glycogen		
	Chauch is a malumour of			
2.54	<b>Starch is a polymer of</b> A) β-D-glucose	C) γ-D-glucose		
	B) αglucose	D) α-L-glucose		
2.55	The reaction between fats and caust			
	A) Hydrogenolysis	C) Esterification		
	B) Fermentation	D) Saponification		
2.56	Adipic acid and hexamethylene diam	nine both of which have <u>carbon atoms</u> :		
-	A) Seven	C) Six		
	B) Eight	D) Four		
2.57	Lactose is a sugar present in milk. It	t is an example of		
2.37	A) Disaccharides	C) Polysaccharides		
	B) Monosaccharides	D) Starch		
2.58	A) Monomers	ge molecules built up from small repeating units called: C) Metamers		
	B) Isomers	D) Tautomers		
	b) isomers			
2.59	The increase in concentration of oxidizing agents in smog like H2O2, HNO3, PAN and ozone in the			
	air is called			
	A) Carbonated smog	C) Photochemical smog		
	B) Nitrated smog	D) Sulphonated smog		
2.60		concentration is harmful for fish as it clogs the gills thus		
	causing suffocation?			
	A) Sodium	C) Zinc		
	B) Lead	D) Aluminium		
0.61	An organic compound has empirical	formula C3H3O, if molar mass of compound is 110.15 gmol <sup>-:</sup>		
		ic compound is (A, of C=12, H=1.008 and O=16)		
	A) C6H6O2	C) C9H9O3		
	C) C3H3O	D) C6H6O3		
. 67	When 8 grams (4 moles) of $H_2$ react with 2 moles of $O_2$ , how many moles of water will be			
2.62	formed?	with $2$ moles of $O_{2_1}$ now many moles of water will De		
	A) Five	C) Six		
	B) Four	D) Three		
3 7	The number of molecules in 22.4 dm <sup>3</sup> o A) 60.2 x 10 <sup>23</sup>	of H <sub>2</sub> gas at 0 °C and 1 atm are C) $6.02 \times 10^{25}$		

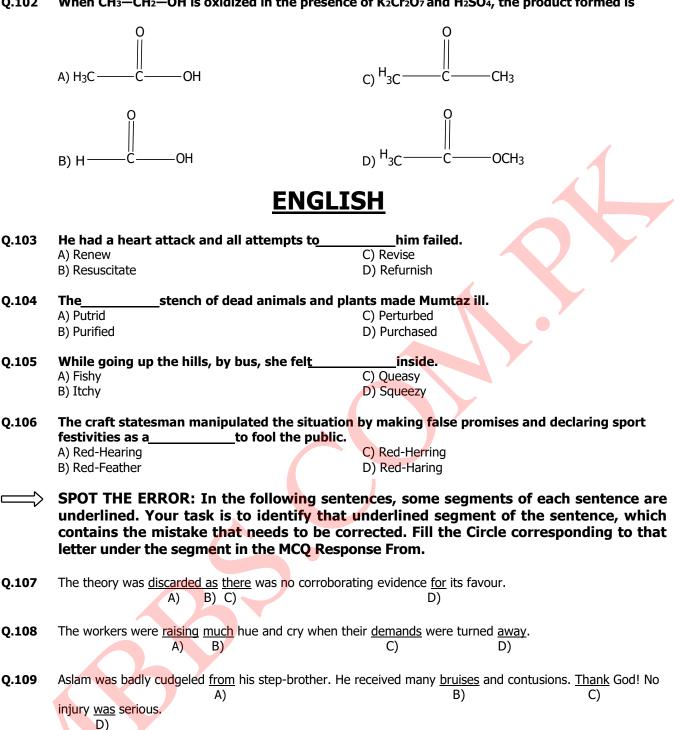
Q.65 Q.66 Q.67 Q.68 Q.69 Q.70 Q.71	<ul> <li>the same although their sizes</li> <li>A) Decrease</li> <li>B) Increase</li> <li>The angle between unhybridized pether is:</li> <li>A) 120°</li> <li>B) 90°</li> </ul>	C) $H_2O > HF > NH_3 > HCl$ D) $HF > H_2O > NH_3 > HCl$ 3d orbitals are in the order C) $4p < 4s < 3d$ D) $4p < 3d < 4s$ val Quantum Number 'n', the shape of the s-orbitals remains C) Remain the same D) May or may not remain the same Orbital and three sp <sup>2</sup> hybrid orbitals of each carbon atom in C) 109.5° D) 180° erence is '1.9'. What is the type of this bond? C) Pi ( $\pi$ ) bond D) Co-ordinate covalent bond C) Dissociation reaction D) Endothermic reactions the enthalpy of C) Dissolution D) Formation
Q.65 Q.66 Q.67 Q.68 Q.69 Q.70 Q.71	<ul> <li>A) H<sub>2</sub>O &gt; HF &gt; HCl &gt; NH<sub>3</sub></li> <li>B) HF &gt; H<sub>2</sub>O &gt; HCl &gt; NH<sub>3</sub></li> <li>The relative energies of 4s, 4p and</li> <li>A) 3d &lt; 4p &lt;4s</li> <li>B) 4s &lt; 3d &lt; 4p</li> <li>With increase in the value of Princip the same although their sizes</li> <li>A) Decrease</li> <li>B) Increase</li> <li>The angle between unhybridized pether is:</li> <li>A) 120°</li> <li>B) 90°</li> <li>In 'H-F' bond electronegativity difference</li> <li>A) Polar covalent bond</li> <li>B) Non-polar covalent bond</li> <li>'ΔH' will be given a negative sign in A) Exothermic reactions</li> <li>B) Decomposition reactions</li> <li>Lattice energy of an ionic crystal is A) Combustion</li> <li>B) Dissociation</li> </ul>	C) $H_2O > HF > NH_3 > HCl$ D) $HF > H_2O > NH_3 > HCl$ 3d orbitals are in the order C) $4p < 4s < 3d$ D) $4p < 3d < 4s$ val Quantum Number 'n', the shape of the s-orbitals remains C) Remain the same D) May or may not remain the same Orbital and three sp <sup>2</sup> hybrid orbitals of each carbon atom in C) 109.5° D) 180° erence is '1.9'. What is the type of this bond? C) Pi ( $\pi$ ) bond D) Co-ordinate covalent bond C) Dissociation reaction D) Endothermic reactions the enthalpy of C) Dissolution D) Formation
Q.65 Q.66 Q.67 Q.68 Q.69 Q.70 Q.71	<ul> <li>B) HF &gt; H<sub>2</sub>O &gt; HCl &gt; NH<sub>3</sub></li> <li>The relative energies of 4s, 4p and A) 3d &lt; 4p &lt;4s</li> <li>B) 4s &lt; 3d &lt; 4p</li> <li>With increase in the value of Princip the same although their sizes</li> <li>A) Decrease</li> <li>B) Increase</li> <li>The angle between unhybridized pether is:</li> <li>A) 120°</li> <li>B) 90°</li> <li>In 'H-F' bond electronegativity difference (A) Polar covalent bond</li> <li>B) Non-polar covalent bond</li> <li>'AH' will be given a negative sign in A) Exothermic reactions</li> <li>B) Decomposition reactions</li> <li>Lattice energy of an ionic crystal is A) Combustion</li> <li>B) Dissociation</li> <li>As number of solute particles increase</li> </ul>	D) $HF > H_2O > NH_3 > HCl$ 3d orbitals are in the order C) $4p < 4s < 3d$ D) $4p < 3d < 4s$ val Quantum Number 'n', the shape of the s-orbitals remains C) Remain the same D) May or may not remain the same orbital and three sp <sup>2</sup> hybrid orbitals of each carbon atom in C) 109.5° D) 180° erence is '1.9'. What is the type of this bond? C) Pi ( $\pi$ ) bond D) Co-ordinate covalent bond C) Dissociation reaction D) Endothermic reactions the enthalpy of C) Dissolution D) Formation
Q.65 Q.66 Q.67 Q.68 Q.69 Q.70 Q.71	The relative energies of 4s, 4p and A) 3d < 4p <4s B) 4s < 3d < 4p With increase in the value of Princip the same although their sizes A) Decrease B) Increase The angle between unhybridized p- ether is: A) 120° B) 90° In 'H-F' bond electronegativity diffe A) Polar covalent bond B) Non-polar covalent bond 'ΔH' will be given a negative sign in A) Exothermic reactions B) Decomposition reactions Cattice energy of an ionic crystal is A) Combustion B) Dissociation As number of solute particles increasing in the solute particles in the solute parti	3d orbitals are in the order C) $4p < 4s < 3d$ D) $4p < 3d < 4s$ val Quantum Number 'n', the shape of the s-orbitals remains C) Remain the same D) May or may not remain the same orbital and three sp <sup>2</sup> hybrid orbitals of each carbon atom in C) 109.5° D) 180° erence is '1.9'. What is the type of this bond? C) Pi ( $\pi$ ) bond D) Co-ordinate covalent bond C) Dissociation reaction D) Endothermic reactions the enthalpy of C) Dissolution D) Formation
Q.66 Q.67 Q.68 Q.69 Q.70 Q.71	<ul> <li>A) 3d &lt; 4p &lt;4s</li> <li>B) 4s &lt; 3d &lt; 4p</li> <li>With increase in the value of Princip the same although their sizes</li> <li>A) Decrease</li> <li>B) Increase</li> <li>The angle between unhybridized pether is:</li> <li>A) 120°</li> <li>B) 90°</li> <li>In 'H-F' bond electronegativity difference</li> <li>A) Polar covalent bond</li> <li>B) Non-polar covalent bond</li> <li>Cht' will be given a negative sign in A) Exothermic reactions</li> <li>B) Decomposition reactions</li> <li>Lattice energy of an ionic crystal is A) Combustion</li> <li>B) Dissociation</li> </ul>	C) $4p < 4s < 3d$ D) $4p < 3d < 4s$ <b>bal Quantum Number 'n', the shape of the s-orbitals remains</b> C) Remain the same D) May or may not remain the same D) May or may not remain the same <b>orbital and three sp<sup>2</sup> hybrid orbitals of each carbon atom in</b> C) 109.5° D) 180° <b>erence is '1.9'. What is the type of this bond?</b> C) Pi ( $\pi$ ) bond D) Co-ordinate covalent bond C) Dissociation reaction D) Endothermic reactions <b>the enthalpy of</b> C) Dissolution D) Formation
Q.66 Q.67 Q.68 Q.69 Q.70 Q.71	<ul> <li>A) 3d &lt; 4p &lt;4s</li> <li>B) 4s &lt; 3d &lt; 4p</li> <li>With increase in the value of Princip the same although their sizes</li> <li>A) Decrease</li> <li>B) Increase</li> <li>The angle between unhybridized pether is:</li> <li>A) 120°</li> <li>B) 90°</li> <li>In 'H-F' bond electronegativity difference</li> <li>A) Polar covalent bond</li> <li>B) Non-polar covalent bond</li> <li>Cht' will be given a negative sign in A) Exothermic reactions</li> <li>B) Decomposition reactions</li> <li>Lattice energy of an ionic crystal is A) Combustion</li> <li>B) Dissociation</li> </ul>	C) $4p < 4s < 3d$ D) $4p < 3d < 4s$ <b>bal Quantum Number 'n', the shape of the s-orbitals remains</b> C) Remain the same D) May or may not remain the same D) May or may not remain the same <b>orbital and three sp<sup>2</sup> hybrid orbitals of each carbon atom in</b> C) 109.5° D) 180° <b>erence is '1.9'. What is the type of this bond?</b> C) Pi ( $\pi$ ) bond D) Co-ordinate covalent bond C) Dissociation reaction D) Endothermic reactions <b>the enthalpy of</b> C) Dissolution D) Formation
Q.66 Q.67 Q.68 Q.69 Q.70 Q.71	<ul> <li>B) 4s &lt; 3d &lt; 4p</li> <li>With increase in the value of Princip the same although their sizes</li> <li>A) Decrease</li> <li>B) Increase</li> <li>The angle between unhybridized pether is: <ul> <li>A) 120°</li> <li>B) 90°</li> </ul> </li> <li>In 'H-F' bond electronegativity difference of the size of</li></ul>	D) $4p < 3d < 4s$ <b>bal Quantum Number 'n', the shape of the s-orbitals remains</b> C) Remain the same D) May or may not remain the same <b>orbital and three sp<sup>2</sup> hybrid orbitals of each carbon atom in</b> C) 109.5° D) 180° <b>erence is '1.9'. What is the type of this bond?</b> C) Pi ( $\pi$ ) bond D) Co-ordinate covalent bond C) Dissociation reaction D) Endothermic reactions <b>the enthalpy of</b> C) Dissolution D) Formation
Q.66 Q.67 Q.68 Q.69 Q.70 Q.71	<ul> <li>With increase in the value of Princip the same although their sizes</li> <li>A) Decrease</li> <li>B) Increase</li> <li>The angle between unhybridized pether is: <ul> <li>A) 120°</li> <li>B) 90°</li> </ul> </li> <li>In 'H-F' bond electronegativity difference of the second s</li></ul>	<ul> <li>al Quantum Number 'n', the shape of the s-orbitals remains</li> <li>C) Remain the same</li> <li>D) May or may not remain the same</li> <li>orbital and three sp<sup>2</sup> hybrid orbitals of each carbon atom in</li> <li>C) 109.5°</li> <li>D) 180°</li> <li>erence is '1.9'. What is the type of this bond?</li> <li>C) Pi (π) bond</li> <li>D) Co-ordinate covalent bond</li> <li>C) Dissociation reaction</li> <li>D) Endothermic reactions</li> <li>the enthalpy of</li> <li>C) Dissolution</li> <li>D) Formation</li> </ul>
Q.67 Q.68 Q.69 Q.70 Q.71	<ul> <li>the same although their sizes</li> <li>A) Decrease</li> <li>B) Increase</li> <li>The angle between unhybridized pether is: <ul> <li>A) 120°</li> <li>B) 90°</li> </ul> </li> <li>In 'H-F' bond electronegativity difference of the second seco</li></ul>	C) Remain the same D) May or may not remain the same orbital and three sp <sup>2</sup> hybrid orbitals of each carbon atom in C) 109.5° D) 180° erence is '1.9'. What is the type of this bond? C) Pi (π) bond D) Co-ordinate covalent bond C) Dissociation reaction D) Endothermic reactions the enthalpy of C) Dissolution D) Formation
Q.67 Q.68 Q.69 Q.70 Q.71	<ul> <li>A) Decrease</li> <li>B) Increase</li> <li>B) Increase</li> <li>The angle between unhybridized pether is: <ul> <li>A) 120°</li> <li>B) 90°</li> </ul> </li> <li>In 'H-F' bond electronegativity difference of the second s</li></ul>	D) May or may not remain the same orbital and three sp <sup>2</sup> hybrid orbitals of each carbon atom in C) 109.5° D) 180° erence is '1.9'. What is the type of this bond? C) Pi (π) bond D) Co-ordinate covalent bond C) Dissociation reaction D) Endothermic reactions the enthalpy of C) Dissolution D) Formation
Q.67 Q.68 Q.69 Q.70 Q.71	<ul> <li>A) Decrease</li> <li>B) Increase</li> <li>B) Increase</li> <li>The angle between unhybridized pether is: <ul> <li>A) 120°</li> <li>B) 90°</li> </ul> </li> <li>In 'H-F' bond electronegativity difference of the second s</li></ul>	D) May or may not remain the same orbital and three sp <sup>2</sup> hybrid orbitals of each carbon atom in C) 109.5° D) 180° erence is '1.9'. What is the type of this bond? C) Pi (π) bond D) Co-ordinate covalent bond C) Dissociation reaction D) Endothermic reactions the enthalpy of C) Dissolution D) Formation
Q.67 Q.68 Q.69 Q.70 Q.71	<ul> <li>B) Increase</li> <li>The angle between unhybridized pether is: <ul> <li>A) 120°</li> <li>B) 90°</li> </ul> </li> <li>In 'H-F' bond electronegativity difference of the second s</li></ul>	D) May or may not remain the same orbital and three sp <sup>2</sup> hybrid orbitals of each carbon atom in C) 109.5° D) 180° erence is '1.9'. What is the type of this bond? C) Pi (π) bond D) Co-ordinate covalent bond C) Dissociation reaction D) Endothermic reactions the enthalpy of C) Dissolution D) Formation
Q.67 Q.68 Q.69 Q.70 Q.71	The angle between unhybridized p- ether is: A) 120° B) 90° In 'H-F' bond electronegativity diffe A) Polar covalent bond B) Non-polar covalent bond 'AH' will be given a negative sign in A) Exothermic reactions B) Decomposition reactions Lattice energy of an ionic crystal is A) Combustion B) Dissociation As number of solute particles increa	orbital and three sp <sup>2</sup> hybrid orbitals of each carbon atom in C) 109.5° D) 180° erence is '1.9'. What is the type of this bond? C) Pi (π) bond D) Co-ordinate covalent bond C) Dissociation reaction D) Endothermic reactions the enthalpy of C) Dissolution D) Formation
Q.68 Q.69 Q.70 Q.71	ether is: A) 120° B) 90° In 'H-F' bond electronegativity diffe A) Polar covalent bond B) Non-polar covalent bond 'ΔH' will be given a negative sign in A) Exothermic reactions B) Decomposition reactions Lattice energy of an ionic crystal is A) Combustion B) Dissociation As number of solute particles increased	C) 109.5° D) 180° erence is '1.9'. What is the type of this bond? C) Pi (π) bond D) Co-ordinate covalent bond C) Dissociation reaction D) Endothermic reactions the enthalpy of C) Dissolution D) Formation
Q.68 Q.69 Q.70 Q.71	<ul> <li>A) 120°</li> <li>B) 90°</li> <li>In 'H-F' bond electronegativity diffe</li> <li>A) Polar covalent bond</li> <li>B) Non-polar covalent bond</li> <li>'\AH' will be given a negative sign in</li> <li>A) Exothermic reactions</li> <li>B) Decomposition reactions</li> <li>Lattice energy of an ionic crystal is</li> <li>A) Combustion</li> <li>B) Dissociation</li> <li>As number of solute particles increased</li> </ul>	D) 180° erence is '1.9'. What is the type of this bond? C) Pi (π) bond D) Co-ordinate covalent bond C) Dissociation reaction D) Endothermic reactions the enthalpy of C) Dissolution D) Formation
Q.69 Q.70 Q.71	<ul> <li>B) 90°</li> <li>In 'H-F' bond electronegativity diffe</li> <li>A) Polar covalent bond</li> <li>B) Non-polar covalent bond</li> <li>'ΔH' will be given a negative sign in</li> <li>A) Exothermic reactions</li> <li>B) Decomposition reactions</li> <li>Lattice energy of an ionic crystal is</li> <li>A) Combustion</li> <li>B) Dissociation</li> <li>As number of solute particles increased</li> </ul>	D) 180° erence is '1.9'. What is the type of this bond? C) Pi (π) bond D) Co-ordinate covalent bond C) Dissociation reaction D) Endothermic reactions the enthalpy of C) Dissolution D) Formation
Q.69 Q.70 Q.71	<ul> <li>B) 90°</li> <li>In 'H-F' bond electronegativity diffe</li> <li>A) Polar covalent bond</li> <li>B) Non-polar covalent bond</li> <li>'ΔH' will be given a negative sign in</li> <li>A) Exothermic reactions</li> <li>B) Decomposition reactions</li> <li>Lattice energy of an ionic crystal is</li> <li>A) Combustion</li> <li>B) Dissociation</li> <li>As number of solute particles increased</li> </ul>	D) 180° erence is '1.9'. What is the type of this bond? C) Pi (π) bond D) Co-ordinate covalent bond C) Dissociation reaction D) Endothermic reactions the enthalpy of C) Dissolution D) Formation
Q.69 Q.70 Q.71	<ul> <li>In 'H-F' bond electronegativity diffe</li> <li>A) Polar covalent bond</li> <li>B) Non-polar covalent bond</li> <li>'ΔH' will be given a negative sign in</li> <li>A) Exothermic reactions</li> <li>B) Decomposition reactions</li> <li>Lattice energy of an ionic crystal is</li> <li>A) Combustion</li> <li>B) Dissociation</li> <li>As number of solute particles increased</li> </ul>	erence is '1.9'. What is the type of this bond? C) Pi (π) bond D) Co-ordinate covalent bond C) Dissociation reaction D) Endothermic reactions the enthalpy of C) Dissolution D) Formation
Q.69 Q.70 Q.71	<ul> <li>A) Polar covalent bond</li> <li>B) Non-polar covalent bond</li> <li>'ΔH' will be given a negative sign in</li> <li>A) Exothermic reactions</li> <li>B) Decomposition reactions</li> <li>Lattice energy of an ionic crystal is</li> <li>A) Combustion</li> <li>B) Dissociation</li> <li>As number of solute particles increased</li> </ul>	<ul> <li>C) Pi (π) bond</li> <li>D) Co-ordinate covalent bond</li> <li>C) Dissociation reaction</li> <li>D) Endothermic reactions</li> <li>the enthalpy of</li> <li>C) Dissolution</li> <li>D) Formation</li> </ul>
Q.69 Q.70 Q.71	<ul> <li>B) Non-polar covalent bond</li> <li>'\Delta H' will be given a negative sign in</li> <li>A) Exothermic reactions</li> <li>B) Decomposition reactions</li> <li>Lattice energy of an ionic crystal is</li> <li>A) Combustion</li> <li>B) Dissociation</li> <li>As number of solute particles increased</li> </ul>	D) Co-ordinate covalent bond C) Dissociation reaction D) Endothermic reactions <b>the enthalpy of</b> C) Dissolution D) Formation
Q.69 Q.70 Q.71	<ul> <li>B) Non-polar covalent bond</li> <li>'\Delta H' will be given a negative sign in</li> <li>A) Exothermic reactions</li> <li>B) Decomposition reactions</li> <li>Lattice energy of an ionic crystal is</li> <li>A) Combustion</li> <li>B) Dissociation</li> <li>As number of solute particles increased</li> </ul>	D) Co-ordinate covalent bond C) Dissociation reaction D) Endothermic reactions <b>the enthalpy of</b> C) Dissolution D) Formation
Q.69 Q.70 Q.71	<ul> <li>'\Delta H' will be given a negative sign in A) Exothermic reactions</li> <li>B) Decomposition reactions</li> <li>Lattice energy of an ionic crystal is A) Combustion</li> <li>B) Dissociation</li> <li>As number of solute particles increased and a second s</li></ul>	C) Dissociation reaction D) Endothermic reactions <b>the enthalpy of</b> C) Dissolution D) Formation
Q.70 Q.71	<ul> <li>A) Exothermic reactions</li> <li>B) Decomposition reactions</li> <li>Lattice energy of an ionic crystal is</li> <li>A) Combustion</li> <li>B) Dissociation</li> <li>As number of solute particles increased</li> </ul>	C) Dissociation reaction D) Endothermic reactions the enthalpy of C) Dissolution D) Formation
Q.70 Q.71	<ul> <li>A) Exothermic reactions</li> <li>B) Decomposition reactions</li> <li>Lattice energy of an ionic crystal is</li> <li>A) Combustion</li> <li>B) Dissociation</li> <li>As number of solute particles increased</li> </ul>	C) Dissociation reaction D) Endothermic reactions the enthalpy of C) Dissolution D) Formation
Q.70 Q.71	<ul> <li>B) Decomposition reactions</li> <li>Lattice energy of an ionic crystal is</li> <li>A) Combustion</li> <li>B) Dissociation</li> <li>As number of solute particles increased</li> </ul>	D) Endothermic reactions <b>the enthalpy of</b> C) Dissolution D) Formation
Q.70 Q.71	Lattice energy of an ionic crystal is A) Combustion B) Dissociation As number of solute particles increa	the enthalpy of C) Dissolution D) Formation
Q.71	<ul><li>A) Combustion</li><li>B) Dissociation</li><li>As number of solute particles increased</li></ul>	C) Dissolution D) Formation
Q.71	<ul><li>A) Combustion</li><li>B) Dissociation</li><li>As number of solute particles increased</li></ul>	C) Dissolution D) Formation
<b>Q.71</b>	<ul><li>B) Dissociation</li><li>As number of solute particles increased</li></ul>	D) Formation
<b>Q.71</b>	As number of solute particles increa	
		ases, freezing point of the solution
l	A) Remains the same	
l		C) First increases, then decreases
0.72	B) Increases	D) Decreases
	Boiling point constants help us to d	etermine
	A) Molar masses	C) Pressures
	,	D) Masses
	B) Volumes	
Q.73	In electrolysis of aqueous CuCl <sub>2</sub> , th	e metal deposited at cathode is
	A) Sodium	C) Lead
	B) Aluminium	D) Copper
	,	-/
Q.74	In MgCl <sub>2</sub> , the oxidation state of `Cl'	is
	A) Zero	C) -2
	B) +2	D) -1
		-, -
		exothermic process, what will happen on cooling?
	A) More reactant will form	C) More H <sub>2</sub> will be formed
	B) More N <sub>2</sub> will be formed	D) More product (NH <sub>3</sub> ) will be formed
0.76	A huffor colution is that which resis	ts/minimizes the change in
	A buffer solution is that which resis	
	A) pOH	C) pKa
	B) pH	D) pKb
Q.77	In some reactions, a product forme	d acts as a catalyst. The phenomenon is called
	A) Negative Catalysis	C) Hetergeneous catalysis
		, 2 ,
	B) Activation of Catalyst	D) Autocatalysis
Q.78	The reaction rate in forward direction	on decreases with the passage of time because
	A) Concentration of reactants decrease	C) The order of reaction changes
	B) Concentration of product decreases	D) Temperature of the system changes

Q.79	Which one remains same along a period?	
	A) Atomic radius B) Melting point	C) Number of shells (orbits) D) Electrical conductivity
Q.80	More the ionization energy of an element:	C) Loss the metallic shere stor
	A) More the electropositivity B) More the reducing power	C) Less the metallic character D) Bigger the atomic radius
	b) hole the reducing power	b) bigger the define radius
Q.81	Alkaline earth metal hydroxides decompose correct representation of this decomposition	e on heating. Which of the following reactions is a
	A) $M(OH)_{2(s)} \longrightarrow MO_{(s)} + H_2O_{(l)}$	C) 2MOH <sub>2(s)</sub> → 2MO(s) + H <sub>2(l)</sub>
	B) $MOH_{(s)} \longrightarrow M_2O_{(s)} + H_2O_{(l)}$	D) $4MOH_{(s)} \longrightarrow 4M_{(s)} + 2H_2O_{(1)} + O_2$
Q.82	property of self-linking in carbon is known	chains by bonding with other carbon atoms. This
	A) Condensation	C) Cyclization
	B) Polymerization	D) Catenation
Q.83	Oxidation state of 'Mn' in KMnO4, K2MnO4, Mn A) +7, +6, +2, +4	$O_2$ and MNSO4 is in the order: C) +7, +6, +4, +2
	B) +6, +7, +2, +4	D) +4, +6, +7, +2
	5) ( 5) ( 7) ( 2) ( 1	5) + 1, + 3, + 7, + 2
Q.84	Which pair of transition elements shows at	
	A) Sc and Zn	C) Zn and Cu
	B) Cu and Sc	D) Cu and Cr
Q.85	The acid rain water has pH:	
-	A) Below 5	C) Between 5 and 7
	В) 7	D) Between 7 and 14
Q.86	In Contact Process for manufacturing sulpl	huric acid, Sulphur trioxide (SO3) is not absorbed in
4.00	water because	
	A) The reaction does not go to completion	C) The reaction is quite slow
	B) The reaction is highly exothermic	D) SO₃ is insoluble in water
Q.87	In modern Haber Process Plants, the temp	erature maintained during the process is
<b>L</b>	A) 670 - 770 K (400 °C - 500 °C)	C) 370 - 470 K (100 °C - 200 °C)
	B) 270 - 370 K (0 °C - 100 °C)	D) 570 - 600 K (300 °C - 380 °C)
0.88	In the Haber process for manufacturing of	ammonia. Nitrogon is takon from
Q.88	A) Proteins occurring in living bodies	C) Air
	B) Ammonium salts obtained industrially	D) Minerals containing nitrates
Q.89	A) Addition	ct polyethene. This reaction may be called as C) Substitution
	B) Condensation	D) Pyrolysis
		, , , , , , , , , , , , , , , , , , ,
Q.90	In the following, which one is free radical?	
	A) CI− B) CI+	C) Cl2 D) Cl°
	0	
0.01		and in collect
Q.91	The introduction of R — C + group in benze A) Acylation	C) Alkylation
	B) Carbonyl reduction	D) Formylation
Q.92	The alkaline hydrolysis of bromoethane sho	own below gives alcohol as the product
Q.92		Swil below gives alconol as the product.
	H <sub>3</sub> C—CH <sub>2</sub> —Br	→ H <sub>3</sub> C−CH <sub>2</sub> −OH
	The reagent and the condition used in this	reaction may be:
	A) H <sub>2</sub> O at room temperature	C) KOH in alcohol
	B) Ethanol, heat	D) Dilute NaOH <sub>(aq)</sub> warm

Page 10 of 19



Page 11 of 19



Q.110 I extend a cordial invitation <u>for</u> you <u>to</u> visit our farm house. We have <u>grown</u> vegetables without chemical A) B) C) fertilizers <u>over</u> there. D)

Q.111Although he is not a close relative of me, yet I was greeted with a show of deep cordiality.A)B)C)D)

Q.112This antibiotic destroys red corpuscles in the blood and cause pernicious anaemia.A)B) C)D)

### Page 12 of 19

> In each of the following question, four alternative sentences are given. Choose the CORRECT one and fill the Circle corresponding to that letter in the MCQ Response Form.

### Q.113

A) Why does not Nomana remained true to her husband?B) Why did not Nomana remain true to her husband?C) Why had not Nomana remain true to her husband?D) Why did not Nomana remained true to her husband?

### Q.114

A) All my childhood, I longed desperately in for a tricycle.B) All my childhood, I longed desperately to a tricycle.C) All my childhood, I longed desperately for a tricycle.D) All my childhood, I longed desperately at a tricycle.

### Q.115

- A) She felt unreal to the voice informed her of the subway accident.B) She felt unreal as the voice informed her of the subway accident.C) She felt unreal that the voice informed her of the subway accident.D) She felt unreal for the voice informed her of the subway accident.
- D) She felt unreal for the voice informed her of the subway accident.

### Q.116

- A) Bill Gates is one of the wealthiest person in the world.
- B) Bill Gates is one of the wealthy person in the world.
- C) Bill Gates is one of the wealthiest persons in the world.
- D) Bill Gates is one of the more wealthy person in the world.

### Q.117

- A) Her father is a SP in the Punjab Police.
- B) Her father was a SP in the Punjab Police.

### Q.118

A) There were musical instruments in the shop.B) There was musical instruments in the shop.

### Q.119

A) He died for heart attack in 1982.B) He died with heart attack in 1982.

### Q.120

A) Always speak in the truth.B) Always tell for the truth.

### Q.121

A) Hand up the answer sheet to me.B) Hand over the answer sheet to me.

### Q.122

A) Are you noticed the peach blossoms?B) Have you noticed the peach blossoms?

C) Her father is an SP in the Punjab Police. D) Her father are a SP in the Punjab Police.

C) There has musical instruments in the shop.D) There is musical instruments in the shop.

C) He died in heart attack in 1982. D) He died of heart attack in 1982.

C) Always tell the truth.

D) Always telling truth.

C) Hand down the answer sheet to me.

D) Hand for the answer sheet to me.

C) Will you noticed the peach blossoms? D) Were you noticed the peach blossoms?

In each of the following question, four alternative meanings of a word are given. You have to select the NEAREST CORRECT MEANING of the given word and fill the appropriate Circle on the MCQ Response Form.

- Q.123 DISSONANCE
  - A) InconsistencyB) Expansion
- Q.124 TRIFLE
  - A) Pudding B) Minor

C) Perceptible D) Warp

C) Deluge D) Treble

Q.125		
0.125	MURKY	
<b>L</b>	A) Dusty	C) Clear
	B) Squeamy	D) Unclear
Q.126	FAUX	
Q.120		
	A) Blunder	C) Indiscretion
	B) Mistake	D) False
	D) Mistake	D) T disc
Q.127	MYRIAD	
	A) Countable	C) Measured
	B) Multitude	D) Blurred
Q.128	FACILE	
Q.120		
	A) Fallacy	C) Delicate
	B) Depict	D) Superficial
	<i>b) b</i> cplice	b) ouperneidi
Q.129	MAGNUM	
•	A) Masterpiece	C) Modest
	B) Magnanimity	D) Magnetic
0 1 2 0	SIDLE	
Q.130		
	A) Sneak	C) Siege
	B) Sift	D) Sieve
	D) Sirt	D) Sieve
Q.131	PLETHORA	
Q.101		
	A) Plastic	C) Measure
	B) Super-fluidity	D) Malleable
	VERTEN	
Q.132	VERTEX	
	A) Poetry	C) Zenith
	B) Depth	D) Diminish
	в) рерш	D) Diministr
	BIOLO	GY
	<u>BIOLO</u>	<u>IGY</u>
	BIOLO	<u>IGY</u>
0.133		
Q.133	The part of neuron fibre which conducts nerve	impulses from the cell body is
Q.133	The part of neuron fibre which conducts nerve A) Dendron	e <b>impulses from the cell body is</b> C) Axon
Q.133	The part of neuron fibre which conducts nerve A) Dendron	e <b>impulses from the cell body is</b> C) Axon
Q.133	The part of neuron fibre which conducts nerve	impulses from the cell body is
-	The part of neuron fibre which conducts nerve A) Dendron B) Dendrites	e <b>impulses from the cell body is</b> C) Axon
Q.133 Q.134	The part of neuron fibre which conducts nerve A) Dendron B) Dendrites The number of cranial nerves in human is	e <b>impulses from the cell body is</b> C) Axon D) Peripheral branch
-	The part of neuron fibre which conducts nerve A) Dendron B) Dendrites The number of cranial nerves in human is	e <b>impulses from the cell body is</b> C) Axon D) Peripheral branch
-	The part of neuron fibre which conducts nerve A) Dendron B) Dendrites The number of cranial nerves in human is A) 31 pairs	e impulses from the cell body is C) Axon D) Peripheral branch C) 24 pairs
-	The part of neuron fibre which conducts nerve A) Dendron B) Dendrites The number of cranial nerves in human is	e <b>impulses from the cell body is</b> C) Axon D) Peripheral branch
-	The part of neuron fibre which conducts nerve A) Dendron B) Dendrites The number of cranial nerves in human is A) 31 pairs	e impulses from the cell body is C) Axon D) Peripheral branch C) 24 pairs
Q.134	The part of neuron fibre which conducts nerve A) Dendron B) Dendrites The number of cranial nerves in human is A) 31 pairs B) 12 pairs	e impulses from the cell body is C) Axon D) Peripheral branch C) 24 pairs D) 62 pairs
-	The part of neuron fibre which conducts nerve A) Dendron B) Dendrites The number of cranial nerves in human is A) 31 pairs B) 12 pairs The part of brain which controls breathing, her	e impulses from the cell body is C) Axon D) Peripheral branch C) 24 pairs D) 62 pairs art rate and swallowing is
Q.134	The part of neuron fibre which conducts nerve A) Dendron B) Dendrites The number of cranial nerves in human is A) 31 pairs B) 12 pairs The part of brain which controls breathing, he A) Cerebrum	e impulses from the cell body is C) Axon D) Peripheral branch C) 24 pairs D) 62 pairs art rate and swallowing is C) Medulla
Q.134	The part of neuron fibre which conducts nerve A) Dendron B) Dendrites The number of cranial nerves in human is A) 31 pairs B) 12 pairs The part of brain which controls breathing, her	e impulses from the cell body is C) Axon D) Peripheral branch C) 24 pairs D) 62 pairs art rate and swallowing is
Q.134	The part of neuron fibre which conducts nerve A) Dendron B) Dendrites The number of cranial nerves in human is A) 31 pairs B) 12 pairs The part of brain which controls breathing, he A) Cerebrum	e impulses from the cell body is C) Axon D) Peripheral branch C) 24 pairs D) 62 pairs art rate and swallowing is C) Medulla
Q.134 Q.135	The part of neuron fibre which conducts nerve A) Dendron B) Dendrites The number of cranial nerves in human is A) 31 pairs B) 12 pairs The part of brain which controls breathing, he A) Cerebrum B) Cerebellum	e impulses from the cell body is C) Axon D) Peripheral branch C) 24 pairs D) 62 pairs art rate and swallowing is C) Medulla D) Hypothalamus
Q.134	The part of neuron fibre which conducts nerve A) Dendron B) Dendrites The number of cranial nerves in human is A) 31 pairs B) 12 pairs The part of brain which controls breathing, he A) Cerebrum B) Cerebellum Syphilis is a sexually transmitted disease which	<ul> <li>c) Axon</li> <li>D) Peripheral branch</li> <li>C) 24 pairs</li> <li>D) 62 pairs</li> <li>art rate and swallowing is</li> <li>C) Medulla</li> <li>D) Hypothalamus</li> <li>ch is caused by</li> </ul>
Q.134 Q.135	The part of neuron fibre which conducts nerve A) Dendron B) Dendrites The number of cranial nerves in human is A) 31 pairs B) 12 pairs The part of brain which controls breathing, he A) Cerebrum B) Cerebellum Syphilis is a sexually transmitted disease which	<ul> <li>c) Axon</li> <li>D) Peripheral branch</li> <li>C) 24 pairs</li> <li>D) 62 pairs</li> <li>art rate and swallowing is</li> <li>C) Medulla</li> <li>D) Hypothalamus</li> <li>ch is caused by</li> </ul>
Q.134 Q.135	The part of neuron fibre which conducts nerve A) Dendron B) Dendrites The number of cranial nerves in human is A) 31 pairs B) 12 pairs The part of brain which controls breathing, he A) Cerebrum B) Cerebellum Syphilis is a sexually transmitted disease which A) Neisseria gonorrhoeae	<ul> <li>c) Axon</li> <li>D) Peripheral branch</li> <li>C) 24 pairs</li> <li>D) 62 pairs</li> <li>art rate and swallowing is</li> <li>C) Medulla</li> <li>D) Hypothalamus</li> <li>ch is caused by</li> <li>C) Treponema pallidum</li> </ul>
Q.134 Q.135	The part of neuron fibre which conducts nerve A) Dendron B) Dendrites The number of cranial nerves in human is A) 31 pairs B) 12 pairs The part of brain which controls breathing, he A) Cerebrum B) Cerebellum Syphilis is a sexually transmitted disease which	<ul> <li>c) Axon</li> <li>D) Peripheral branch</li> <li>C) 24 pairs</li> <li>D) 62 pairs</li> <li>art rate and swallowing is</li> <li>C) Medulla</li> <li>D) Hypothalamus</li> <li>ch is caused by</li> </ul>
Q.134 Q.135 Q.136	The part of neuron fibre which conducts nerve A) Dendron B) Dendrites The number of cranial nerves in human is A) 31 pairs B) 12 pairs The part of brain which controls breathing, he A) Cerebrum B) Cerebellum Syphilis is a sexually transmitted disease which A) Neisseria gonorrhoeae B) E. coli	<ul> <li>c) Axon</li> <li>D) Peripheral branch</li> <li>C) 24 pairs</li> <li>D) 62 pairs</li> <li>art rate and swallowing is</li> <li>C) Medulla</li> <li>D) Hypothalamus</li> <li>ch is caused by</li> <li>C) Treponema pallidum</li> <li>D) Mycobacterium avium</li> </ul>
Q.134 Q.135 Q.136	The part of neuron fibre which conducts nerve A) Dendron B) Dendrites The number of cranial nerves in human is A) 31 pairs B) 12 pairs The part of brain which controls breathing, he A) Cerebrum B) Cerebellum Syphilis is a sexually transmitted disease which A) Neisseria gonorrhoeae B) E. coli	<ul> <li>c) Axon</li> <li>D) Peripheral branch</li> <li>C) 24 pairs</li> <li>D) 62 pairs</li> <li>art rate and swallowing is</li> <li>C) Medulla</li> <li>D) Hypothalamus</li> <li>ch is caused by</li> <li>C) Treponema pallidum</li> <li>D) Mycobacterium avium</li> </ul>
Q.134 Q.135	The part of neuron fibre which conducts nerver A) Dendron B) Dendrites The number of cranial nerves in human is A) 31 pairs B) 12 pairs The part of brain which controls breathing, her A) Cerebrum B) Cerebellum Syphilis is a sexually transmitted disease which A) Neisseria gonorrhoeae B) E. coli Discharge of ovum or secondary oocyte from of	<ul> <li>c) Axon</li> <li>D) Peripheral branch</li> <li>C) 24 pairs</li> <li>D) 62 pairs</li> <li>art rate and swallowing is</li> <li>C) Medulla</li> <li>D) Hypothalamus</li> <li>ch is caused by</li> <li>C) Treponema pallidum</li> <li>D) Mycobacterium avium</li> </ul>
Q.134 Q.135 Q.136	The part of neuron fibre which conducts nerver A) Dendron B) Dendrites The number of cranial nerves in human is A) 31 pairs B) 12 pairs The part of brain which controls breathing, her A) Cerebrum B) Cerebellum Syphilis is a sexually transmitted disease which A) Neisseria gonorrhoeae B) E. coli Discharge of ovum or secondary oocyte from of A) Fertilization	<ul> <li>c) Axon</li> <li>D) Peripheral branch</li> <li>C) 24 pairs</li> <li>D) 62 pairs</li> <li>art rate and swallowing is</li> <li>C) Medulla</li> <li>D) Hypothalamus</li> <li>ch is caused by</li> <li>C) Treponema pallidum</li> <li>D) Mycobacterium avium</li> </ul>
Q.134 Q.135 Q.136	The part of neuron fibre which conducts nerver A) Dendron B) Dendrites The number of cranial nerves in human is A) 31 pairs B) 12 pairs The part of brain which controls breathing, her A) Cerebrum B) Cerebellum Syphilis is a sexually transmitted disease which A) Neisseria gonorrhoeae B) E. coli Discharge of ovum or secondary oocyte from of A) Fertilization	<ul> <li>c) Axon</li> <li>D) Peripheral branch</li> <li>C) 24 pairs</li> <li>D) 62 pairs</li> <li>art rate and swallowing is</li> <li>C) Medulla</li> <li>D) Hypothalamus</li> <li>ch is caused by</li> <li>C) Treponema pallidum</li> <li>D) Mycobacterium avium</li> </ul>
Q.134 Q.135 Q.136	The part of neuron fibre which conducts nerver A) Dendron B) Dendrites The number of cranial nerves in human is A) 31 pairs B) 12 pairs The part of brain which controls breathing, her A) Cerebrum B) Cerebellum Syphilis is a sexually transmitted disease which A) Neisseria gonorrhoeae B) E. coli Discharge of ovum or secondary oocyte from of	<ul> <li>c) Axon</li> <li>D) Peripheral branch</li> <li>C) 24 pairs</li> <li>D) 62 pairs</li> <li>art rate and swallowing is</li> <li>C) Medulla</li> <li>D) Hypothalamus</li> <li>ch is caused by</li> <li>C) Treponema pallidum</li> <li>D) Mycobacterium avium</li> </ul>
Q.134 Q.135 Q.136 Q.137	<ul> <li>The part of neuron fibre which conducts nerver</li> <li>A) Dendron</li> <li>B) Dendrites</li> <li>The number of cranial nerves in human is</li> <li>A) 31 pairs</li> <li>B) 12 pairs</li> <li>The part of brain which controls breathing, here</li> <li>A) Cerebrum</li> <li>B) Cerebellum</li> <li>Syphilis is a sexually transmitted disease whice</li> <li>A) Neisseria gonorrhoeae</li> <li>B) E. coli</li> <li>Discharge of ovum or secondary oocyte from of</li> <li>A) Fertilization</li> <li>B) Pollination</li> </ul>	<ul> <li>a impulses from the cell body is</li> <li>C) Axon</li> <li>D) Peripheral branch</li> <li>C) 24 pairs</li> <li>D) 62 pairs</li> <li>art rate and swallowing is</li> <li>C) Medulla</li> <li>D) Hypothalamus</li> <li>ch is caused by</li> <li>C) Treponema pallidum</li> <li>D) Mycobacterium avium</li> <li>bvary or from Graafian follicle is called</li> <li>C) Follicle formation</li> <li>D) Ovulation</li> </ul>
Q.134 Q.135 Q.136	The part of neuron fibre which conducts nerve A) Dendron B) Dendrites The number of cranial nerves in human is A) 31 pairs B) 12 pairs The part of brain which controls breathing, he A) Cerebrum B) Cerebellum Syphilis is a sexually transmitted disease which A) Neisseria gonorrhoeae B) E. coli Discharge of ovum or secondary oocyte from of A) Fertilization B) Pollination Second meiotic division in the secondary oocyte	<ul> <li><b>impulses from the cell body is</b></li> <li>C) Axon</li> <li>D) Peripheral branch</li> <li>C) 24 pairs</li> <li>D) 62 pairs</li> <li><b>art rate and swallowing is</b></li> <li>C) Medulla</li> <li>D) Hypothalamus</li> <li><b>ch is caused by</b></li> <li>C) Treponema pallidum</li> <li>D) Mycobacterium avium</li> </ul> <b>to vary or from Graafian follicle is called</b> <ul> <li>C) Follicle formation</li> <li>D) Ovulation</li> </ul>
Q.134 Q.135 Q.136 Q.137	The part of neuron fibre which conducts nerve A) Dendron B) Dendrites The number of cranial nerves in human is A) 31 pairs B) 12 pairs The part of brain which controls breathing, he A) Cerebrum B) Cerebellum Syphilis is a sexually transmitted disease which A) Neisseria gonorrhoeae B) E. coli Discharge of ovum or secondary oocyte from of A) Fertilization B) Pollination Second meiotic division in the secondary oocyte	<ul> <li><b>impulses from the cell body is</b></li> <li>C) Axon</li> <li>D) Peripheral branch</li> <li>C) 24 pairs</li> <li>D) 62 pairs</li> <li><b>art rate and swallowing is</b></li> <li>C) Medulla</li> <li>D) Hypothalamus</li> <li><b>ch is caused by</b></li> <li>C) Treponema pallidum</li> <li>D) Mycobacterium avium</li> </ul> <b>to vary or from Graafian follicle is called</b> <ul> <li>C) Follicle formation</li> <li>D) Ovulation</li> </ul>
Q.134 Q.135 Q.136 Q.137	The part of neuron fibre which conducts nerver A) Dendron B) Dendrites The number of cranial nerves in human is A) 31 pairs B) 12 pairs The part of brain which controls breathing, her A) Cerebrum B) Cerebellum Syphilis is a sexually transmitted disease which A) Neisseria gonorrhoeae B) E. coli Discharge of ovum or secondary oocyte from of A) Fertilization B) Pollination Second meiotic division in the secondary oocyte A) Metaphase	<ul> <li><b>impulses from the cell body is</b></li> <li>C) Axon</li> <li>D) Peripheral branch</li> <li>C) 24 pairs</li> <li>D) 62 pairs</li> <li><b>art rate and swallowing is</b></li> <li>C) Medulla</li> <li>D) Hypothalamus</li> <li><b>ch is caused by</b></li> <li>C) Treponema pallidum</li> <li>D) Mycobacterium avium</li> </ul> <b>to ary or from Graafian follicle is called</b> <ul> <li>C) Follicle formation</li> <li>D) Ovulation</li> </ul> <b>te proceeds as far as</b> <ul> <li>C) Anaphase</li> </ul>
Q.134 Q.135 Q.136 Q.137	The part of neuron fibre which conducts nerve A) Dendron B) Dendrites The number of cranial nerves in human is A) 31 pairs B) 12 pairs The part of brain which controls breathing, he A) Cerebrum B) Cerebellum Syphilis is a sexually transmitted disease which A) Neisseria gonorrhoeae B) E. coli Discharge of ovum or secondary oocyte from of A) Fertilization B) Pollination Second meiotic division in the secondary oocyte	<ul> <li><b>impulses from the cell body is</b></li> <li>C) Axon</li> <li>D) Peripheral branch</li> <li>C) 24 pairs</li> <li>D) 62 pairs</li> <li><b>art rate and swallowing is</b></li> <li>C) Medulla</li> <li>D) Hypothalamus</li> <li><b>ch is caused by</b></li> <li>C) Treponema pallidum</li> <li>D) Mycobacterium avium</li> </ul> <b>to vary or from Graafian follicle is called</b> <ul> <li>C) Follicle formation</li> <li>D) Ovulation</li> </ul>
Q.134 Q.135 Q.136 Q.137	The part of neuron fibre which conducts nerver A) Dendron B) Dendrites The number of cranial nerves in human is A) 31 pairs B) 12 pairs The part of brain which controls breathing, her A) Cerebrum B) Cerebellum Syphilis is a sexually transmitted disease which A) Neisseria gonorrhoeae B) E. coli Discharge of ovum or secondary oocyte from of A) Fertilization B) Pollination Second meiotic division in the secondary oocyte A) Metaphase	<ul> <li><b>impulses from the cell body is</b></li> <li>C) Axon</li> <li>D) Peripheral branch</li> <li>C) 24 pairs</li> <li>D) 62 pairs</li> <li><b>art rate and swallowing is</b></li> <li>C) Medulla</li> <li>D) Hypothalamus</li> <li><b>ch is caused by</b></li> <li>C) Treponema pallidum</li> <li>D) Mycobacterium avium</li> </ul> <b>to ary or from Graafian follicle is called</b> <ul> <li>C) Follicle formation</li> <li>D) Ovulation</li> </ul> <b>te proceeds as far as</b> <ul> <li>C) Anaphase</li> </ul>
Q.134 Q.135 Q.136 Q.137 Q.138	The part of neuron fibre which conducts nerver A) Dendrion B) Dendrites The number of cranial nerves in human is A) 31 pairs B) 12 pairs The part of brain which controls breathing, here A) Cerebrum B) Cerebellum Syphilis is a sexually transmitted disease whice A) Neisseria gonorrhoeae B) E. coli Discharge of ovum or secondary oocyte from of A) Fertilization B) Pollination Second meiotic division in the secondary oocyte A) Metaphase B) Prophase	<ul> <li><b>impulses from the cell body is</b></li> <li>() Axon</li> <li>() Peripheral branch</li> <li>() 24 pairs</li> <li>() 62 pairs</li> <li><b>art rate and swallowing is</b></li> <li>() Medulla</li> <li>() Hypothalamus</li> <li><b>ch is caused by</b></li> <li>() Treponema pallidum</li> <li>() Mycobacterium avium</li> <li><b>bvary or from Graafian follicle is called</b></li> <li>() Follicle formation</li> <li>() Ovulation</li> <li><b>te proceeds as far as</b></li> <li>() Anaphase</li> <li>() Telophase</li> </ul>
Q.134 Q.135 Q.136 Q.137	The part of neuron fibre which conducts nerver A) Dendrion B) Dendrites The number of cranial nerves in human is A) 31 pairs B) 12 pairs The part of brain which controls breathing, here A) Cerebrum B) Cerebellum Syphilis is a sexually transmitted disease whice A) Neisseria gonorrhoeae B) E. coli Discharge of ovum or secondary oocyte from of A) Fertilization B) Pollination Second meiotic division in the secondary oocyte A) Metaphase B) Prophase Which one of the following differentiates direct	<ul> <li>impulses from the cell body is</li> <li>() Axon</li> <li>() Peripheral branch</li> <li>() 24 pairs</li> <li>() 62 pairs</li> <li>art rate and swallowing is</li> <li>() Medulla</li> <li>() Hypothalamus</li> <li>c) Medulla</li> <li>() Hypothalamus</li> <li>ch is caused by</li> <li>() Treponema pallidum</li> <li>() Mycobacterium avium</li> <li>bvary or from Graafian follicle is called</li> <li>() Follicle formation</li> <li>() Ovulation</li> <li>te proceeds as far as</li> <li>() Anaphase</li> <li>() Telophase</li> </ul>
Q.134 Q.135 Q.136 Q.137 Q.138	<ul> <li>The part of neuron fibre which conducts nerver</li> <li>A) Dendrion</li> <li>B) Dendrites</li> <li>The number of cranial nerves in human is</li> <li>A) 31 pairs</li> <li>B) 12 pairs</li> <li>The part of brain which controls breathing, her</li> <li>A) Cerebrum</li> <li>B) Cerebellum</li> <li>Syphilis is a sexually transmitted disease whice</li> <li>A) Neisseria gonorrhoeae</li> <li>B) E. coli</li> <li>Discharge of ovum or secondary oocyte from of</li> <li>A) Fertilization</li> <li>B) Pollination</li> <li>Second meiotic division in the secondary oocyte</li> <li>A) Metaphase</li> <li>B) Prophase</li> <li>Which one of the following differentiates direct</li> <li>A) Primary spermatocyte</li> </ul>	<ul> <li><b>impulses from the cell body is</b> <ul> <li>() Axon</li> <li>() Peripheral branch</li> </ul> </li> <li>() 24 pairs</li> <li>() 62 pairs</li> </ul> <li><b>art rate and swallowing is</b> <ul> <li>() Medulla</li> <li>() Hypothalamus</li> </ul> </li> <li><b>th is caused by</b> <ul> <li>() Treponema pallidum</li> <li>() Mycobacterium avium</li> </ul> </li> <li><b>to ary or from Graafian follicle is called</b> <ul> <li>() Follicle formation</li> <li>() Ovulation</li> </ul> </li> <li><b>te proceeds as far as</b> <ul> <li>() Anaphase</li> <li>() Telophase</li> </ul> </li>
Q.134 Q.135 Q.136 Q.137 Q.138	The part of neuron fibre which conducts nerver A) Dendrion B) Dendrites The number of cranial nerves in human is A) 31 pairs B) 12 pairs The part of brain which controls breathing, here A) Cerebrum B) Cerebellum Syphilis is a sexually transmitted disease whice A) Neisseria gonorrhoeae B) E. coli Discharge of ovum or secondary oocyte from of A) Fertilization B) Pollination Second meiotic division in the secondary oocyte A) Metaphase B) Prophase Which one of the following differentiates direct	<ul> <li>impulses from the cell body is</li> <li>() Axon</li> <li>() Peripheral branch</li> <li>() 24 pairs</li> <li>() 62 pairs</li> <li>art rate and swallowing is</li> <li>() Medulla</li> <li>() Hypothalamus</li> <li>c) Medulla</li> <li>() Hypothalamus</li> <li>ch is caused by</li> <li>() Treponema pallidum</li> <li>() Mycobacterium avium</li> <li>bvary or from Graafian follicle is called</li> <li>() Follicle formation</li> <li>() Ovulation</li> <li>te proceeds as far as</li> <li>() Anaphase</li> <li>() Telophase</li> </ul>

Page 1	.4 of 19		
Q.140	Uterus opens into the vagina through		
	A) Cervix	C) External genitalia	
	B) Fallopian tube	D) Vulva	
Q.141	Each muscle fibre is surrounded by membrane		
	A) Sarcomere		
	B) Sarcolemma	D) Capsule	
Q.142	When calcium ions are released from the sare	conlasmic reticulum they hind with	
Q.172	during muscle contraction		
	A) Tropomyosin	C) Cytosol's ions	
	B) Sarcolemma	D) Troponin	
Q.143	Human and mammalian skeleton can be divide	ed into two parts, axial skeleton and	
	A) Appendicular skeleton	C) Endoskeleton	
	B) Exoskeleton	D) Hydrostatic skeleton	
Q.144	Last four vertebrae in humans are fused to for	rm a structure called	
	A) Sacrum	C) Pubis	
	B) Cervical vertebrae	D) Coccyx	
	B) Cervical vertebrae	D) COCCYX	
Q.145	How many bones are involved in the formation	n of each half of pelvic girdle?	
•	A) 3 bones	C) 2 bones	
	B) 4 bones	D) 1 bone	
	B) 4 Dones	D) I bolle	
Q.146	Ductless glands are known as		
•	A) Endocrine gland	C) Salivary glands	
	B) Exocrine gland	D) Bile glands	
		D) bile glainds	
Q.147	Gastrin is the hormone which is produced by t	he	
•	A) Liver	B) Pyloric region of stomach	
	C) Adrenal gland	D) Mucosal lining of intestine	
Q.148	β-cells of liver secrete a hormone that is called		
	A) Insulin	C) Antidiuretic hormone	
	B) Glucagon	D) Gastrin	
Q.149	Vasopressin and Oxytocin are released from the A) Placenta	ne C) Anterior pituitary	
	B) Ovary	D) Posterior pituitary	
Q.150	Antigen is a foreign protein or any other mole	cule which stimulates the formation of	
	A) MHC complex	C) Mucus	
	B) Immunogen	D) Antibodies	
Q.151	Antibodies are produced by which of the following lymphocytes?		
	A) B lymphocytes	C) T lymphocytes	
	B) A lymphocytes	D) B and T lymphocytes	
0.155	Thursdan kassing and and and and	t under the influer of	
Q.152	T-lymphocytes become mature and competen A) Liver	C) Thymus gland	
	B) Bursa of fabricius	D) Spleen	
Q.153	Skin and mucous membranes are part of the b	ody defense system and they form the	
4.100			
	A) Physical barrier	C) Chemical barriers	
	B) Mechanical barriers	D) Biological barriers	
Q.154	Snake bite is treated with which type of immu	inization?	
A.T.24			
	A) Active	C) Humoral	
	B) Passive	D) Specific	

		Page 15 of 19
Q.155	The product(s) of cyclic photophosphorylation	
	A) ATP	C) NADP and ATP
	B) NADP	D) NADP, ATP, and O <sub>2</sub>
Q.156	<b>Total NADH formed by one glucose molecule d</b> A) 6	uring Krebs's Cycle are C) 8
	B) 3	D) 18
Q.157	The terminal electron acceptor in electron tran	
	A) Hydrogen	C) Cytochrome
	B) Iron	D) Oxygen
Q.158	The end product of glycolysis is	
<b>L</b>	A) ADP	C) Citric acid
	B) Reduced FAD	D) Pyruvate
Q.159	<b>One molecule of FADH</b> <sub>2</sub> <b>is produced in Krebs's</b> A) Fumarate Malate	cycle during conversion of C) Malate Oxaloacetate
	B) Succinate Fumarate	D) $\alpha$ -Ketoglutarate Succinate
Q.160		e tools for manip <mark>ulati</mark> ng DNA
	A) Viruses	C) Enzymes
	B) Chromosomes	D) Genes
Q.161	In DNA finger printing process, the use of	produces distinctive pattern on
<b>4</b>	autoradiography or X-ray film	prostatus anomenes partern en
	A) Restriction enzyme	C) Macrosatellites
	B) Microsatellites	D) Probes for genetic markers
Q.162	In the recombinant DNA technology plasmids	
Q.102	A) Genetic material	C) Vectors
	B) Enzymes	D) Probes
Q.163	In which process, multiple copies of the desire	
	A) Polymerase chain reaction B) Gene sequencing	C) Analyzing DNA D) DNA finger printing
	b) delle sequencing	D) DNA Illiger printing
Q.164	The enzyme adenosine deaminase is missing in	n person suffering from:
	A) Cystic fibrosis	C) Severe combined immunodeficiency syndrome
	B) Hypercholesterolemia	D) Parkinson's disease
Q.165	What is the niche of an organism in an ecosyst	em?
Q.105	A) Role played by many organisms in an ecosystem	C) Role played by community of microorganisms in
	,	their ecosystem
	B) Role played by a dead organism in an ecosystem	D) Role played by an organism in its ecosystem.
0.100	The distinct levels on links of food shain are cal	led
Q.166	The distinct levels or links of food chain are cal A) Trophic level	C) Energy pyramid
	B) Food web	D) Food chain
		,
Q.167	A relationship between two or more organisms	of different species in which all partners get
	benefit is called	
	A) Symbiosis	C) Commensalism
	B) Parasitism	D) Predation
Q.168	Bacteria and fungi are examples of	
4.TOO	A) Producers	C) Consumers
	B) Decomposers	D) Denvers
	-	
Q.169	The cause of acid rain is	
	A) Oxides of carbon	C) Oxides of Sulphur
	B) Oxides of nitrogen and Sulphur	D) Oxides of nitrogen

Q.170	.6 of 19 When the presence of a gene at one locus phenomenon is called	ocus suppresses the effect of a gene at another locus, t	
	A) Hypostasis	C) Epistasis	
	B) Pleiotropy	D) Epitropy	
Q.171	The gene for ABO-blood group systems in	n humans is represented by symbol:	
-	A) X	C) Y	
	B) I	D) O	
Q.172	When a single gene affects two or more t	traits, the phenomenon is called	
	A) Epistasis	C) Dominance	
	B) Pleiotropy	D) Over dominance	
Q.173	The comparative embryology of all vertel	brates shows development of	
-	A) Hairs	C) Scales	
	B) Gill pouches	D) Fins	
0 174	To mon any determination depends upon		
Q.174	In men, sex-determination depends upon		
	A) Heterogametic male	C) Heterogametic female	
	B) Homogametic female	D) Homogametic male	
Q.175		nd animals) living in the same habitat form a	
	A) Community	C) Biosphere	
	B) Ecosystem	D) Microhabitat	
Q.176	The part of the body which forms a struct	ural and functional unit and is composed of more that	
<b>L</b>	one tissue is called		
	A) Organ	C) Organ sy <mark>s</mark> tem	
	B) Organelle	D) Whole organism	
Q.177	A method in which pests are destroyed by called	y using same living organisms or natural enemies is	
	A) Pasteurization	C) Biological control	
	B) Integrated disease management	D) Genetic engineering	
Q.178	Chemicals produced by microorganisms w	which are capable of destroying the growth of microb	
•	are called		
	A) Antigen	C) Antiseptics	
	B) Biocidal	D) Antibiotics	
0 1 70	Plastids are only found in the		
Q.173			
Q.179		C) Plants	
Q.179	A) Animals and Plants B) Animals	C) Plants D) Viruses	
-	A) Animals and Plants B) Animals	D) Viruses	
Q.179 Q.180	<ul> <li>A) Animals and Plants</li> <li>B) Animals</li> <li>Plasma membrane is chemically composed</li> </ul>	D) Viruses	
-	A) Animals and Plants B) Animals	D) Viruses	
Q.180	<ul> <li>A) Animals and Plants</li> <li>B) Animals</li> <li>Plasma membrane is chemically compose</li> <li>A) Phospholipids only</li> <li>B) Lipids and proteins</li> <li>Endoplasmic reticulum contains a system</li> </ul>	D) Viruses ed of C) Lipids and carbohydrates	
Q.180	<ul> <li>A) Animals and Plants</li> <li>B) Animals</li> <li>Plasma membrane is chemically compose</li> <li>A) Phospholipids only</li> <li>B) Lipids and proteins</li> </ul>	D) Viruses ed of C) Lipids and carbohydrates D) Glycoproteins	
Q.180	<ul> <li>A) Animals and Plants</li> <li>B) Animals</li> <li>Plasma membrane is chemically compose</li> <li>A) Phospholipids only</li> <li>B) Lipids and proteins</li> <li>Endoplasmic reticulum contains a system named as</li> </ul>	D) Viruses ed of C) Lipids and carbohydrates D) Glycoproteins of flattened membrane-bounded sacs which are	
Q.180	<ul> <li>A) Animals and Plants</li> <li>B) Animals</li> <li>Plasma membrane is chemically compose</li> <li>A) Phospholipids only</li> <li>B) Lipids and proteins</li> <li>Endoplasmic reticulum contains a system</li> </ul>	D) Viruses ed of C) Lipids and carbohydrates D) Glycoproteins	
Q.180 Q.181	<ul> <li>A) Animals and Plants</li> <li>B) Animals</li> <li>Plasma membrane is chemically compose</li> <li>A) Phospholipids only</li> <li>B) Lipids and proteins</li> <li>Endoplasmic reticulum contains a system named as</li> <li>A) Cristae</li> <li>B) Marks</li> </ul>	D) Viruses ed of C) Lipids and carbohydrates D) Glycoproteins of flattened membrane-bounded sacs which are C) Cisternae D) Tubules	
-	<ul> <li>A) Animals and Plants</li> <li>B) Animals</li> <li>Plasma membrane is chemically composed</li> <li>A) Phospholipids only</li> <li>B) Lipids and proteins</li> <li>Endoplasmic reticulum contains a system named as</li> <li>A) Cristae</li> <li>B) Marks</li> <li>Lipids synthesis / metabolism takes place</li> </ul>	D) Viruses ed of C) Lipids and carbohydrates D) Glycoproteins of flattened membrane-bounded sacs which are C) Cisternae D) Tubules e in which of the following organelle?	
Q.180 Q.181	<ul> <li>A) Animals and Plants</li> <li>B) Animals</li> <li>Plasma membrane is chemically compose</li> <li>A) Phospholipids only</li> <li>B) Lipids and proteins</li> <li>Endoplasmic reticulum contains a system named as</li> <li>A) Cristae</li> <li>B) Marks</li> </ul>	D) Viruses ed of C) Lipids and carbohydrates D) Glycoproteins of flattened membrane-bounded sacs which are C) Cisternae D) Tubules	
Q.180 Q.181 Q.182	<ul> <li>A) Animals and Plants</li> <li>B) Animals</li> <li>Plasma membrane is chemically composed</li> <li>A) Phospholipids only</li> <li>B) Lipids and proteins</li> <li>Endoplasmic reticulum contains a system named as</li> <li>A) Cristae</li> <li>B) Marks</li> <li>Lipids synthesis / metabolism takes place</li> <li>A) Mitochondria</li> <li>B) Vacuoles</li> </ul>	D) Viruses ed of C) Lipids and carbohydrates D) Glycoproteins of flattened membrane-bounded sacs which are C) Cisternae D) Tubules e in which of the following organelle? C) Rough endoplasmic reticulum D) Smooth endoplasmic reticulum	
Q.180 Q.181	<ul> <li>A) Animals and Plants</li> <li>B) Animals</li> <li>Plasma membrane is chemically composed</li> <li>A) Phospholipids only</li> <li>B) Lipids and proteins</li> <li>Endoplasmic reticulum contains a system named as</li> <li>A) Cristae</li> <li>B) Marks</li> <li>Lipids synthesis / metabolism takes place</li> <li>A) Mitochondria</li> </ul>	D) Viruses ed of C) Lipids and carbohydrates D) Glycoproteins of flattened membrane-bounded sacs which are C) Cisternae D) Tubules e in which of the following organelle? C) Rough endoplasmic reticulum D) Smooth endoplasmic reticulum	

Q.184		
<b>4</b>	<b>Exchange of segments between homologous</b> A) Segregation B) Independent assortment	chromosomes is called C) Crossing over D) Mutation
Q.185	If a person has 44 autosomes + XXY, he will	suffer from
	A) Klinefelter's syndrome	C) Turner's syndrome
	B) Down's syndrome	D) Edward's syndrome
		_ /
Q.186	The ribosomal RNA is synthesized and stored	lin
<b>L</b>	A) Endoplasmic reticulum	C) Golgi complex
	B) Nucleolus	D) Chromosomes
	b) Nucleolus	D) chromosomes
Q.187	In which stage of Internhace, there is increase	se in cell size and many biochemical are formed?
Q.107		
	A) G <sub>2</sub> phase	C) S phase
	B) G1 phase	D) C phase
Q.188	In Down's syndrome, which one of the follow	
	A) 7	C) 21
	B) 18	D) 19
Q.189	Carbohydrates are organic molecules and con	
	A) Carbon, water and oxygen	C) Carbon, calcium and hydrogen
	B) Carbon, Sulphur and hydrogen	D) Carbon, hydrog <mark>e</mark> n and oxygen
Q.190	Which one are intermediates in respiration a	nd photosynthesis both?
-	A) Ribose and heptolose	C) Glucose and galactose
	B) Glyceraldehydes and dihydroxyacetone	D) Fructose and ribulose
		,
Q.191	Which of the following is a peptide bond?	
<b>L</b>	A) -C-N	С) -С-Р
	В) -С-О	D) -C-S
	-,	-,
Q.192	Which of the following is an unsatur <mark>at</mark> ed fatt	y ac <mark>id</mark> ?
	A) Acetic Acid	C) Oleic acid
	B) Butyric acid	D) Palmitic acid
Q.193	Which of the following combination of base p	pair is absent in DNA?
•	A) A-T	C) A-U
	B) C-G	D) T-A
	-,	-)
Q.194	The type of inhibition in which inhibitor has n	o structural similarity to substrate and combines
·		
	with enzyme at other than the active site is c	alled
	with enzyme at other than the active site is c	
	A) Irreversible inhibition	C) Non-competitive and reversible inhibition
0 1 9 5	<ul><li>A) Irreversible inhibition</li><li>B) Competitive inhibition</li></ul>	C) Non-competitive and reversible inhibition D) Reversible inhibition
Q.195	<ul> <li>A) Irreversible inhibition</li> <li>B) Competitive inhibition</li> <li>The inhibitors that bind tightly and permanent</li> </ul>	C) Non-competitive and reversible inhibition
Q.195	<ul> <li>A) Irreversible inhibition</li> <li>B) Competitive inhibition</li> <li>The inhibitors that bind tightly and permanent</li> <li>and catalytic activity are</li> </ul>	<ul> <li>C) Non-competitive and reversible inhibition</li> <li>D) Reversible inhibition</li> <li>tly to enzymes and destroy their globular structure</li> </ul>
Q.195	<ul> <li>A) Irreversible inhibition</li> <li>B) Competitive inhibition</li> <li>The inhibitors that bind tightly and permanent</li> <li>and catalytic activity are</li> <li>A) Reversible inhibitors</li> </ul>	<ul> <li>C) Non-competitive and reversible inhibition</li> <li>D) Reversible inhibition</li> <li>tly to enzymes and destroy their globular structure</li> <li>C) Competitive inhibitors</li> </ul>
Q.195	<ul> <li>A) Irreversible inhibition</li> <li>B) Competitive inhibition</li> <li>The inhibitors that bind tightly and permanent</li> <li>and catalytic activity are</li> </ul>	<ul> <li>C) Non-competitive and reversible inhibition</li> <li>D) Reversible inhibition</li> <li>tly to enzymes and destroy their globular structure</li> </ul>
	<ul> <li>A) Irreversible inhibition</li> <li>B) Competitive inhibition</li> <li>The inhibitors that bind tightly and permanent and catalytic activity are</li> <li>A) Reversible inhibitors</li> <li>B) Irreversible inhibitors</li> </ul>	<ul> <li>C) Non-competitive and reversible inhibition</li> <li>D) Reversible inhibition</li> <li>the to enzymes and destroy their globular structure</li> <li>C) Competitive inhibitors</li> <li>D) Non-competitive inhibitors</li> </ul>
Q.195 Q.196	<ul> <li>A) Irreversible inhibition</li> <li>B) Competitive inhibition</li> <li>The inhibitors that bind tightly and permanent and catalytic activity are</li> <li>A) Reversible inhibitors</li> <li>B) Irreversible inhibitors</li> <li>Enzyme succinate dehydrogenase converts set</li> </ul>	<ul> <li>C) Non-competitive and reversible inhibition</li> <li>D) Reversible inhibition</li> <li><b>thy to enzymes and destroy their globular structure</b></li> <li>C) Competitive inhibitors</li> <li>D) Non-competitive inhibitors</li> <li>uccinate into</li> </ul>
	<ul> <li>A) Irreversible inhibition</li> <li>B) Competitive inhibition</li> <li>The inhibitors that bind tightly and permanent and catalytic activity are</li> <li>A) Reversible inhibitors</li> <li>B) Irreversible inhibitors</li> <li>Enzyme succinate dehydrogenase converts succinate dehydrogenase converts succinate</li> </ul>	<ul> <li>C) Non-competitive and reversible inhibition</li> <li>D) Reversible inhibition</li> <li>the competitive inhibitors</li> <li>C) Competitive inhibitors</li> <li>D) Non-competitive inhibitors</li> <li>uccinate into</li> <li>C) Citrate</li> </ul>
	<ul> <li>A) Irreversible inhibition</li> <li>B) Competitive inhibition</li> <li>The inhibitors that bind tightly and permanent and catalytic activity are</li> <li>A) Reversible inhibitors</li> <li>B) Irreversible inhibitors</li> <li>Enzyme succinate dehydrogenase converts set</li> </ul>	<ul> <li>C) Non-competitive and reversible inhibition</li> <li>D) Reversible inhibition</li> <li><b>thy to enzymes and destroy their globular structure</b></li> <li>C) Competitive inhibitors</li> <li>D) Non-competitive inhibitors</li> <li>uccinate into</li> </ul>
Q.196	<ul> <li>A) Irreversible inhibition</li> <li>B) Competitive inhibition</li> <li>The inhibitors that bind tightly and permanent and catalytic activity are</li> <li>A) Reversible inhibitors</li> <li>B) Irreversible inhibitors</li> <li>Enzyme succinate dehydrogenase converts set</li> <li>A) Malate</li> <li>B) Malonic acid</li> </ul>	<ul> <li>C) Non-competitive and reversible inhibition</li> <li>D) Reversible inhibition</li> <li>the enzymes and destroy their globular structure</li> <li>C) Competitive inhibitors</li> <li>D) Non-competitive inhibitors</li> <li>uccinate into</li> <li>C) Citrate</li> <li>D) Fumarate</li> </ul>
Q.196	<ul> <li>A) Irreversible inhibition</li> <li>B) Competitive inhibition</li> <li>The inhibitors that bind tightly and permanent and catalytic activity are</li> <li>A) Reversible inhibitors</li> <li>B) Irreversible inhibitors</li> <li>B) Irreversible inhibitors</li> <li>Enzyme succinate dehydrogenase converts set</li> <li>A) Malate</li> <li>B) Malonic acid</li> <li>If the detachable co-factor is an inorganic ion</li> </ul>	<ul> <li>C) Non-competitive and reversible inhibition</li> <li>D) Reversible inhibition</li> <li>c) Reversible inhibitions</li> <li>c) Competitive inhibitors</li> <li>D) Non-competitive inhibitors</li> <li>uccinate into</li> <li>C) Citrate</li> <li>D) Fumarate</li> <li>n then it is designated as</li> </ul>
Q.196	<ul> <li>A) Irreversible inhibition</li> <li>B) Competitive inhibition</li> <li>B) Competitive inhibition</li> <li>The inhibitors that bind tightly and permanent and catalytic activity are</li> <li>A) Reversible inhibitors</li> <li>B) Irreversible inhibitors</li> <li>Enzyme succinate dehydrogenase converts set</li> <li>A) Malate</li> <li>B) Malonic acid</li> <li>If the detachable co-factor is an inorganic ion</li> <li>A) Coenzyme</li> </ul>	<ul> <li>C) Non-competitive and reversible inhibition</li> <li>D) Reversible inhibition</li> <li>the enzymes and destroy their globular structure</li> <li>C) Competitive inhibitors</li> <li>D) Non-competitive inhibitors</li> <li>uccinate into</li> <li>C) Citrate</li> <li>D) Fumarate</li> </ul>
Q.196	<ul> <li>A) Irreversible inhibition</li> <li>B) Competitive inhibition</li> <li>The inhibitors that bind tightly and permanent and catalytic activity are</li> <li>A) Reversible inhibitors</li> <li>B) Irreversible inhibitors</li> <li>B) Irreversible inhibitors</li> <li>Enzyme succinate dehydrogenase converts set</li> <li>A) Malate</li> <li>B) Malonic acid</li> <li>If the detachable co-factor is an inorganic ion</li> </ul>	<ul> <li>C) Non-competitive and reversible inhibition</li> <li>D) Reversible inhibition</li> <li>the enzymes and destroy their globular structure</li> <li>C) Competitive inhibitors</li> <li>D) Non-competitive inhibitors</li> <li>uccinate into</li> <li>C) Citrate</li> <li>D) Fumarate</li> <li>n then it is designated as</li> </ul>
Q.196	<ul> <li>A) Irreversible inhibition</li> <li>B) Competitive inhibition</li> <li>B) Competitive inhibition</li> <li>The inhibitors that bind tightly and permanent and catalytic activity are</li> <li>A) Reversible inhibitors</li> <li>B) Irreversible inhibitors</li> <li>Enzyme succinate dehydrogenase converts set</li> <li>A) Malate</li> <li>B) Malonic acid</li> <li>If the detachable co-factor is an inorganic ion</li> <li>A) Coenzyme</li> <li>B) Prosthetic group</li> </ul>	<ul> <li>C) Non-competitive and reversible inhibition</li> <li>D) Reversible inhibition</li> <li>c) Reversible inhibitions</li> <li>c) Competitive inhibitors</li> <li>D) Non-competitive inhibitors</li> <li>uccinate into</li> <li>C) Citrate</li> <li>D) Fumarate</li> <li>n then it is designated as</li> <li>C) Holoenzyme</li> <li>D) Activator</li> </ul>
Q.196 Q.197	<ul> <li>A) Irreversible inhibition</li> <li>B) Competitive inhibition</li> <li>B) Competitive inhibition</li> <li>The inhibitors that bind tightly and permanent and catalytic activity are</li> <li>A) Reversible inhibitors</li> <li>B) Irreversible inhibitors</li> <li>Enzyme succinate dehydrogenase converts set</li> <li>A) Malate</li> <li>B) Malonic acid</li> <li>If the detachable co-factor is an inorganic ion</li> <li>A) Coenzyme</li> <li>B) Prosthetic group</li> </ul>	<ul> <li>C) Non-competitive and reversible inhibition</li> <li>D) Reversible inhibition</li> <li>c) Reversible inhibitions</li> <li>c) Competitive inhibitors</li> <li>D) Non-competitive inhibitors</li> <li>uccinate into</li> <li>C) Citrate</li> <li>D) Fumarate</li> <li>n then it is designated as</li> <li>C) Holoenzyme</li> </ul>
Q.196 Q.197	<ul> <li>A) Irreversible inhibition</li> <li>B) Competitive inhibition</li> <li>B) Competitive inhibition</li> <li>The inhibitors that bind tightly and permanent and catalytic activity are</li> <li>A) Reversible inhibitors</li> <li>B) Irreversible inhibitors</li> <li>Enzyme succinate dehydrogenase converts set</li> <li>A) Malate</li> <li>B) Malonic acid</li> <li>If the detachable co-factor is an inorganic ion</li> <li>A) Coenzyme</li> <li>B) Prosthetic group</li> </ul>	<ul> <li>C) Non-competitive and reversible inhibition</li> <li>D) Reversible inhibition</li> <li>c) Reversible inhibitions</li> <li>c) Competitive inhibitors</li> <li>D) Non-competitive inhibitors</li> <li>uccinate into</li> <li>C) Citrate</li> <li>D) Fumarate</li> <li>n then it is designated as</li> <li>C) Holoenzyme</li> <li>D) Activator</li> </ul>
	<ul> <li>A) Irreversible inhibition</li> <li>B) Competitive inhibition</li> <li>B) Competitive inhibition</li> <li>The inhibitors that bind tightly and permanent and catalytic activity are</li> <li>A) Reversible inhibitors</li> <li>B) Irreversible inhibitors</li> <li>Enzyme succinate dehydrogenase converts set</li> <li>A) Malate</li> <li>B) Malonic acid</li> <li>If the detachable co-factor is an inorganic ion</li> <li>A) Coenzyme</li> <li>B) Prosthetic group</li> <li>In HIV viruses, reverse transcriptase converts</li> </ul>	<ul> <li>C) Non-competitive and reversible inhibition</li> <li>D) Reversible inhibition</li> <li>c) Reversible inhibitions</li> <li>c) Competitive inhibitors</li> <li>D) Non-competitive inhibitors</li> <li>uccinate into</li> <li>C) Citrate</li> <li>D) Fumarate</li> <li>n then it is designated as</li> <li>C) Holoenzyme</li> <li>D) Activator</li> </ul>
Q.196 Q.197	<ul> <li>A) Irreversible inhibition</li> <li>B) Competitive inhibition</li> <li>B) Competitive inhibition</li> <li>The inhibitors that bind tightly and permanent and catalytic activity are</li> <li>A) Reversible inhibitors</li> <li>B) Irreversible inhibitors</li> <li>B) Irreversible inhibitors</li> <li>Enzyme succinate dehydrogenase converts set</li> <li>A) Malate</li> <li>B) Malonic acid</li> <li>If the detachable co-factor is an inorganic ion</li> <li>A) Coenzyme</li> <li>B) Prosthetic group</li> <li>In HIV viruses, reverse transcriptase converts</li> </ul>	<ul> <li>C) Non-competitive and reversible inhibition</li> <li>D) Reversible inhibition</li> <li>c) Reversible inhibitions</li> <li>c) Competitive inhibitors</li> <li>D) Non-competitive inhibitors</li> <li>uccinate into</li> <li>C) Citrate</li> <li>D) Fumarate</li> <li>n then it is designated as</li> <li>C) Holoenzyme</li> <li>D) Activator</li> <li>s single-stranded RNA into double stranded viral</li> </ul>

-	8 of 19	
Q.199	Mesosomes are infoldings of the cell m A) DNA replication	embrane and are involved in C) Protein synthesis
	B) RNA synthesis	D) Metabolism
0 200	Most widosproad problem of the antibi	atics misuss is the
Q.200	Most widespread problem of the antibi A) Rapid cure	C) Disturbance of metabolism
	B) Increased resistance in pathogen	D) Immunity
Q.201	Which of the following component is fo	ound in the cell wall of fungi?
<b>L</b>	A) Cellulose	C) Proteins
	B) Chitin	D) Glycerol
Q.202	The male reproductive parts of the flow	ver are called
	A) Gynoecium	C) Androecium
	B) Calyx	D) Corolla
Q.203	Fasciola is the name given to	
	A) Tapeworm	C) Liver fluke
	B) Planaria	D) Earthworm
Q.204	Ascaris is	
	A) Diploblastic B) Triploblastic	C) Haploid D) Acoelomate
		b) Accelonate
Q.205	During development, in an animal, mes	
	A) Nervous System B) Alimentary canal lining	C) Muscular and skeletal system D) Mouth
	b) Annentary canal mining	D) Hour
Q.206	Polymorphism is characteristic feature	
	A) Porifera B) Cnidaria	C) Annelida D) Nematodes
Q.207	The muscles of the stomach walls thore resulting semi-solid / semi-liquid mate	oughly mix up the food with gastric juices and the
	A) Bolus	C) Mucus
	B) Bolus or c	
Q.208		RTANT
Q.200	A) Goblet ce	
	B) Absorptive	
Q.209	In large in	DCAT Past Papers
• • •	A) Symbiotic Book is Very	Important for the
	B) Obligate p Preparation.	
Q.210	Goblet cell	ly online With
L ·	A) HCI Free Home L	Delvery.
	B) Mucus	
Q.211	Mature mammalian red blood cells do i	not have
	A) Nucleus	C) Fluids
	B) Red color	D) Haemoglobin
Q.212	In a normal person plasma constitutes	abou <u>t</u> by volume of blood
	A) 50%	C) 45%
	B) 60%	D) 55%
Q.213	Which vein has oxygenated blood?	
	A) Renal vein	B) Pulmonary vein
	B) Subclavian vein	D) Jugular vein

Page 19 of 19

What is the residual volume of air which always remains inside the lungs of human? Q.214 A) 3.5 Liters C) 5.0 Liters B) 0.5 Liters D) 1.5 Liters In nephron, most of the reabsorption takes place in the Q.215 A) Distal tubule C) Ascending limb B) Proximal tubule D) Descending limb Q.216 Detection of change and signaling for effector's response to the control system is a A) Negative feedback C) Inter-coordination B) Positive feedback D) Feedback mechanism Q.217 What are three components of mechanism of homeostatic regulations? A) Receptors, control centre and effectors C) CNS, PNS and diffused nervous system B) Sensory, motor and associative neurons D) Cerebrum, cerebellum and pons Blood enters the glomerulus through Q.218 A) Efferent arteriole C) Renal artery B) Afferent arteriole D) Renal vein Which portion of nephron is under the control of ADH? Q.219 A) Bowman's capsule C) Distal and collecting ducts B) Ascending arm D) Descending arm Cause of Parkinson's disease is death of brain cells that produce Q.220

A) Dopamine B) Acetylcholine

C) ADH hormone D) Oxytocin

### **MBBS.COM.PK**

UHS MDCAT PAST PAPERS BOOK Hard Copy Available Now.



### **University of Health Sciences, Lahore**



Total MCQs: 220

#### Max. Marks: 1100

ABCD

1 2 3

### ENTRANCE TEST - 2013 For F.Sc. and Non-F.Sc. Students <u>Time Allowed: 150 minutes</u>

#### Instructions:

- i. Read the instructions on the MCQs Response Form carefully.
- ii. Choose the **Single Best Answer** for each question.
- iii. Candidates are strictly prohibited from giving any identification mark except Roll No. & Signature in the specified columns only.

## **COMPULSORY QUESTION FOR IDENTIFICATION**

Q-ID. What is the color of your Question Paper? A) White.

B)

Q.2

Q.5

Blue.	D) Green.	ID
Ans: Colour	of your Questio	n Paper is Pink.
Fill the Circ	le Correspondin	ng to Letter `C'
against `ID'	in your MCQ	response form
(Exactly as s	hown in the diag	jram).



- Q.1 The wavelength ' $\lambda$ ' of a wave depends on the speed 'v' of the wave and its frequency 'f'. Decide which of the following is correct?
  - A)  $f = v \lambda$ B)  $f = \frac{\lambda}{v}$ Name the quantity which can be measured by using base unit 'kgm<sup>2</sup>s<sup>-3'</sup> A) Weight B) Pressure D) Work
- Q.3 Ratio of moment of inertia of two objects 'A' and 'B' is 2:3. Which one of the following is the ratio of torques of 'A' and 'B' respectively, if both are being rotated with constant angular acceleration? A) 3:4

B) 2:3 D) 4:3	A) 3:4	C) 3:2
-,	3) 2:3	D) 4:3

Q.4 Due to some mechanical fault, a lift falls freely from the top of a multistory building. Which of the followings is the apparent weight of a man inside the lift, if mass of man is 80 kg while value of 'g' is 10 ms<sup>-2</sup>?

B) Zero	D) 700 N
Stokes' Law is given as: $A = 6\pi pr^2 v$	

C) F = 6πηrv⁻¹
$\dot{D}$ F = $6\pi^2 \eta r^3 v$

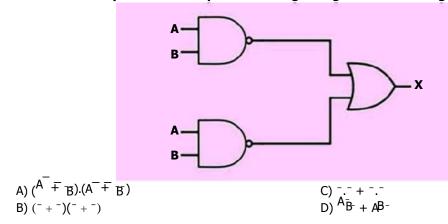
A) Remains constant	e pipe and the fluid speed at any point along the pipe: C) Exponentially increases D) Exponentially decreases
A small leak is developed in a large wate	r storage tank. If the height of water above leakage is
A) 14 m/sec B) 10 m/sec	C) 9.8 m/sec D) 20 m/sec
	which an object can be seen clearly without strain is
A) Focal point B) Near point	C) Yield point D) Far point
A) The wavelength of incident light wave is inc	acle, the angle of diffraction is increased then: creased C) The amplitude of the incident light wave is increased creased D) The amplitude of the incident light wave is decreased
An object 15 cm from a lens produces a r of the lens?	eal image 30 cm from the lens. What is the focal length
A) +15 cm B) +20 cm	C) +10 cm D) +25 cm
What is the formula for critical angle in c indexes $n_1$ and $n_2$ such that $n_1 > n_2$ ?	case of light through two mediums having refractive
$\begin{array}{c} n_1 \\ A) \sin^{-1} \left( \frac{n}{2} \right) \end{array}$	C) $\cos^{-1}(\frac{n_2}{n_1})$
B) $\cos^{-1} = n_1^{-1}$	D) $\sin^{-1}$
2	pression of kinetic energy at any displacement 'x' is
given by: $1   x^2$	$1   x^2$
A) $\frac{1}{2} kx_{0^2} (1 - x_{2^2})$	C) $\overline{2}  m\omega  (1 - x)_{2}$
$\frac{1}{B}$	$\frac{1}{2} \frac{1}{1} \frac{1}{2} \frac{1}{1} \frac{1}$
	ed as 340 m/s at pressure $P_1$ and temperature $T_1$ . What
will be the speed of sound if pressure of A) 342 m/s B) 340 m/s	gas is doubled but temperature is kept constant? C) 170 m/s D) 680 m/s
The stress-strain graph, deduced the foll A) Proportional limit, yield limit, elastic limit B) Yield limit, elastic limit, proportional limit	<b>owing limits successively:</b> C) Proportional limit, elastic limit, yield limit D) Elastic limit, proportional limit, yield limit
Variation of amplitude with respect to the	me for an oscillation object is shown in figure.
yo Annuldinka -yo	t t
	A) Remains constant B) Is zero A small leak is developed in a large water 10 m, then find the speed of efflux throw A) 14 m/sec B) 10 m/sec The minimum distance from the eye at we called: A) Focal point B) Near point In the diffraction of light around an obst A) The wavelength of incident light wave is ince B) The wavelength of incident light wave is dec An object 15 cm from a lens produces a r of the lens? A) +15 cm B) +20 cm What is the formula for critical angle in conditioners A) sin <sup>-1</sup> ( $\hat{m}_2$ ) B) cos <sup>-1</sup> n1 ( $\hat{m}_2$ ) For vibrating mass-spring system, the ex- given by: 1 x <sup>2</sup> A) $\frac{1}{2} kx_{o^2} (1 - \frac{x^2}{x_{o^2}})$ 1 2 B) $\frac{1}{2} kx_o$ Speed of sound through a gas is measured will be the speed of sound if pressure of A) 342 m/s B) 340 m/s The stress-strain graph, deduced the foll A) Proportional limit, yield limit, elastic limit B) Yield limit, elastic limit, proportional limit Variation of amplitude with respect to the

**Identify the oscillation:** A) Damped B) Critical

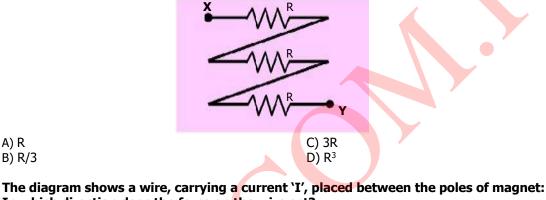
C) Undamped D) Heavily damped

		Page 3 of 20
Q.16	elongation which the wire undergoe	etching force and its length increases by 40 cm. The percent s is:
	A) 0.10 %	C) 10 %
	B) 40 %	D) 20 %
Q.17	What is the value of universal gas co	
	A) 8314 Jmol <sup>-1</sup> K <sup>-1</sup> B) 83.14 Jmol <sup>-1</sup> K <sup>-2</sup>	C) 831.4 Jmol <sup>-1</sup> K <sup>-1</sup> D) 8.314 Jmol <sup>-1</sup> K <sup>-2</sup>
Q.18		les each having speed 1 ms <sup>-1</sup> , 2 ms <sup>-1</sup> , 3 ms <sup>-1</sup> . What is the
	mean square speed? A) 14/3 m/s	C) 2 m/s
	B) 6 m/s	D) f14/3 m/s
Q.19	What is the factor upon which chanc	ge in internal energy of an ideal gas depends?
Q.19	A) Change in volume	C) Change in temperature
	B) Change in temperature and volume	D) Path followed to change internal energy
Q.20	What will be the mathematical form	of first law of thermodynamics for a system whose variation
-	of volume by pressure is shown?	
	T	
	P1	Isothermal
	P2	
	۵_	$V_1$ $V_2$
	A) Q = U	C) Q = U/W
	B) U = W	$\begin{array}{c} D \ Q = 0 \\ D \ Q = W \end{array}$
Q.21	For a heat engine $A'$ ratio of $\Omega_1$ to $\Omega_2$	is $2/3$ while that of heat engine 'B', ratio of $Q_2$ to $Q_1$ is $1/3$ .
Q.21	What is the value $\eta_A$ : $\eta_B$ ?	
	A) 1:3 B) 1:2	C) 2:3 D) 2:1
	0) 1.2	6)2.1
Q.22	_	capacitor charged to potential difference of 12 V?
	A) 60 μC B) 2.4 C	C) 2.4 µC D) 60 C
0.22		
Q.23	A) Voltage is connected to 'Y' input and ti	way to study the sinusoidal wave form of voltage? me base is switched on.
	B) Voltage is connected to 'X' input and ti	me base is switched off.
	C) Voltage is connected to 'Y' input and ti D) Voltage is connected to 'X' input and ti	
	b) voluge is connected to x input and th	
Q.24		hm resistance to have a steady flow of current. What must
	ampere?	across the same resistance to have a steady current of one
	A) 12 V	C) 1 V
	B) 6 V	D) 3 V
Q.25		gnetic induction due to same current in each half will be:
	A) Half of the original	C) Same as original
	B) Double of the original	D) Four times of the original
Q.26		ductor has current directed from bottom to top when held
	vertically. What will be the direction conductor?	on of magnetic field lines when observed from below the
	A) Clockwise	C) Vertically upward
	B) Anti clockwise	D) Vertically downward

Page 4 of 20 Q.27 What is the output Boolean expression of logic diagram shown in figure below:



Three resistors each having value 'R' are connected as shown in figure. What is the equivalence Q.28 resistance between 'X' and 'Y'?



Q.29 In which direction does the force on the wire act?

S N A) Towards the 'N' pole of the magnet C) Upwards B) Downwards D) Towards the 'S' pole of the magnet Q.30 X-rays from a given X-ray tube operating under specified conditions have a minimum wavelength. The value of this minimum wavelength could be reduced by: A) Cooling the target C) Increasing the potential difference between the cathode and the target B) Reducing the temperature of the filament D) Reducing the pressure in the tube Helium-neon lasers are used for the: Q.31 A) Precise measurement of range finding C) Surveying for construction of tunnels B) Optical fiber communication systems D) Welding detached bone of body Q.32 What is the type of characteristic X-ray photon whose energy is given by relation  $hf = E_M - E_{\kappa'}?$ A) K - alpha C) K - beta B) M - alpha D) M - beta Kinetic energy of electrons by applying potential difference V1 across the x-ray tube is KE1 while Q.33  $V_2$  potential difference produce kinetic energy equal to KE<sub>2</sub>. What will be the value of KE<sub>1</sub>:KE<sub>2</sub> if ratio of potential difference V1:V2 = 2:3? A) 3:2 C) 9:4 B) 4:9 D) 2:3

Page 5 of 20

Q.34 What will be the relation for the speed of electron accelerated towards the target in X-ray tube by applying potential difference 'V', take mass of electron 'm' and charge on electron 'e'?

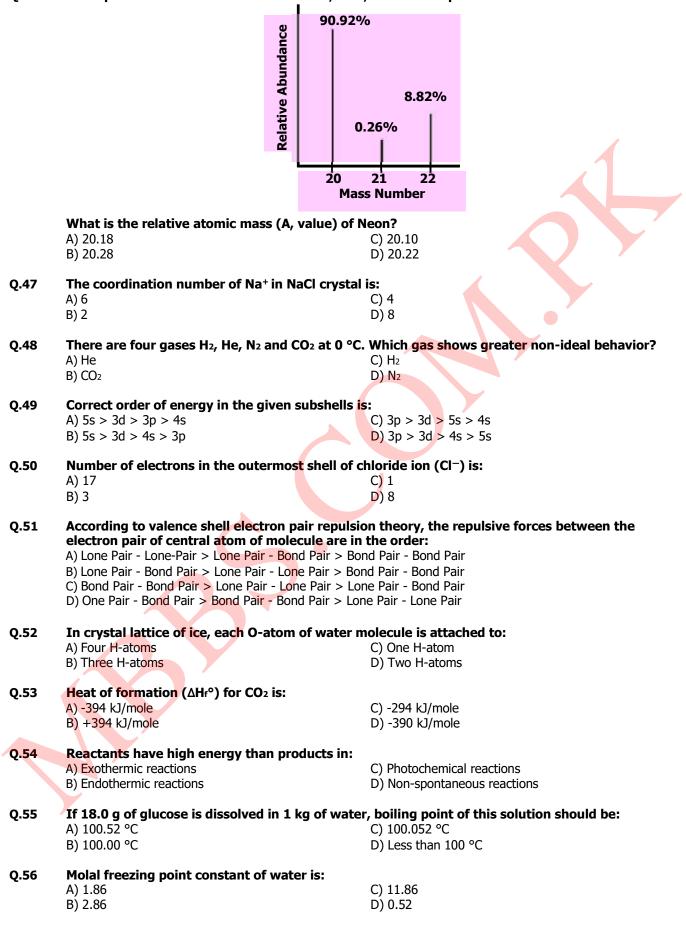
by applying potential difference 'V', take mass of electron 'm' and charge on electron 'e'?  
A) 
$$v = \int \frac{2V}{2me}$$
(C)  $v = \int \frac{2V}{2me}$ 
(C)  $v = \int \frac{2V}{2me}$ 
(C)  $v = \sqrt{2meV}$ 
(Q.35)  
For what CAT stands in X-ray technology?  
A) Capacitor Amplifier Transistor  
B) Computerized Axial Tomography
(D)  $v = \sqrt{2meV}$ 
(C) Cathode Anode Technique  
B) Computerized Axial Tomography
(D) Current Amplification Technology
(C) Cathode Anode Technique  
B) Ground State
(C)  $v = \sqrt{2meV}$ 
(C) Cathode Anode Technique  
B) Ground State
(C)  $v = \sqrt{2meV}$ 
(C) Cathode Anode Technique  
B) Ground State
(C) Cathode Anode Technique  
D)  $v = \sqrt{2meV}$ 
(C) Cathode Anode Technique  
B) Ground State
(C) Current Amplification Technology
(C) Cathode Anode Technique  
D) Thin, wavy, longer  
B) Thin, wavy, shorter
(C) Divide State E: Contains more number of atoms than  
the ground state E; the state is known as:  
A) Apha  
B) Gamma
(D) Straight, thick, short
(C) Beta  
B) Gamma
(D) Decreases in X' by 1 and 'A' remains same  
B) Gamma
(D) Ducle of energy is absorbed by 10-gram mass from a radioactive source. What is the absorbed  
doese?  
A) I dray  
B) Decreases in M' by 1 and 'A' remains same  
B) Cance as the Mose nuclei of an element that have:  
A) Joray  
B) Same mass number but different atomic number  
B) Same mass number but different totomic number  
B) Same mass number but different totomic number  
B) Same mass number as well as atomic number  
B) Same mass number as well as atomic number  
B) Same mass number as well as atomic number  
B) Same mass number as well as atomic number  
B) Same mass number as well as atomic number  
B) Same mass number as well as atomic number  
B) Same mass number as well as atomic number  
B) Same mass number as well as atomic number  
B) Same mass number as well as atomic number  
B) Same mass number as well as atomic number  
B) Same mass number as well as atomic number  
B) Independent of temperature and pressure  
B) Independent of temperature but dependent on  
temperature  
C) Which one of the following emission takes place

Q.45 Hydrogen burns in chlorine to produce hydrogen chloride. The ratio of masses of reactants in chemical reaction is: H₂ + Cl₂ → 2HCl

A) 1:35.5	C) 1:71
B) 2:35.5	D) 2:70

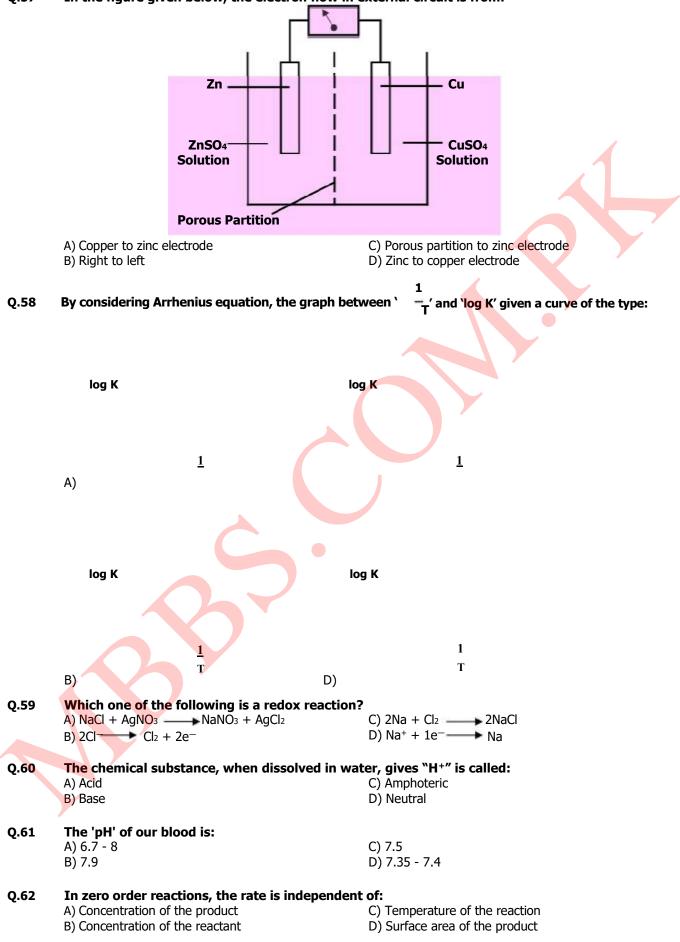
Page 6 of 20

Q.46 A sample of Neon is found to exist as <sup>20</sup>Ne, <sup>21</sup>Ne, <sup>22</sup>Ne. Mass spectrum of 'Ne' is as follow:



Page 7 of 20

Q.57 In the figure given below, the electron flow in external circuit is from:



-	8 of 20	
Q.63	What is the trend of melting and boiling point left to right in a periodic table?	of the elements of short periods as we move from
	<ul> <li>A) Melting and boiling points first decrease then increase</li> </ul>	C) Melting and boiling points first increase then decrease
	B) Melting and boiling points increase gradually	D) Melting and boiling points decrease gradually
Q.64	Along a period, atomic radius decreases. This	
	<ul><li>A) Increase in number of electrons in valence shells</li><li>B) Increase in number of protons in the nucleus</li></ul>	C) Decrease in number of shells D) Increase in number of shells
Q.65		o give hydroxides. The solubility of alkaline earth /e from top to bottom in a group. Which of the
	following alkaline earth metal oxides is least s	
	A) MgO B) CaO	C) BaO D) SrO
Q.66	The electronic structure of carbon monoxide is	s represented as:
<b>L</b>	:C===0:	c <del></del> o;
	A) ••	C)
	B) :CO:	D) CO
Q.67	Which one pair has the same oxidation state o	of 'Fe'?
<b>L</b>	A) FeSO₄ and FeCl <sub>3</sub>	C) FeSO <sub>4</sub> and FeCl <sub>2</sub>
	B) FeCl <sub>2</sub> and FeCl <sub>3</sub>	D) Fe <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> and FeSO <sub>4</sub>
Q.68	Oxidation state of 'Fe' in K <sub>3</sub> [Fe(CN) <sub>6</sub> ] is:	
	A) +2 B) +3	C) -6 D) -3
Q.69	The nature of an aqueous solution of ammonia	a (NH3) is:
4.00	A) Amphoterie	c C) Acidic
	B) Neutral	D) Basic
Q.70	Unpolluted rain water has a pH of: A) 4.9	C) 5.3
	B) 5.6	D) 7.0
Q.71	In comparison with oxygen gas, a strong triple	
	atoms in a molecule and therefore nitrogen ga A) Highly reactive gas	
	B) Completely inert like noble gases	C) Moderately reactive gas D) Very less reactive gas
Q.72	The catalyst used in the Haber's process is:	
-	A) Magnesium oxide B) Aluminium oxide	C) Silicon oxide
		D) Iron crystals with metal oxide promoters
Q.73	The cis-isomerism is shown by: H <sub>3</sub> C, H	н н
	CH3	L CH3
	A) H <sub>3</sub> C CH <sub>3</sub>	C) <sup>H</sup> <sub>3</sub> C H, /H
		cc
	B) H <sub>3</sub> C H	D) H CH <sub>3</sub>
0.74	Select the nucleophile from the following exa	

 Q.74
 Select the nucleophile from the following examples:

 A) NO2
 C) NO2<sup>+</sup>

 B) NH3
 D) N<sup>+</sup>H4

Page 9 of 20 OH Cl 0 D) What is the product formed when propene reacts with HBr? H<sub>2</sub>C--CH-CH<sub>3</sub> A) H<sub>3</sub>C —— CH<sub>2</sub> —— CH<sub>2</sub>Br C) Β̈́r Br

H<sub>3</sub>C-

D)

-CH-

Β'n

CH<sub>3</sub>

CH<sub>2</sub>

CH == CH<sub>2</sub>

CH<sub>2</sub> -

C) Reaction I is Debromination

D) Reaction II is elimination

▶ ?

C) C<sub>2</sub>H<sub>5</sub>Cl, POCl<sub>3</sub> and HCl

D) C<sub>2</sub>H<sub>5</sub>Cl and POCl<sub>3</sub>

C) Benzoic acid

D) Malonic acid

H<sub>3</sub>C-

CH<sub>2</sub>OH

B) BrH<sub>2</sub>C ——CH === CH<sub>2</sub>Br

в) <sup>R</sup> —

Q.76

CI

Q.77 The order of reactivity of alkyl halides towards nucleophile is: A) RI > RBr > RF > RCIC) RF > RCI > RBr > RIB) RI > RBr > RCl > RFD) RF > RBr > RCl > RI

Q.78 Consider the reaction given below:  $H_3C$ — $CH_2$ — $CH_2$ — $CH_2Br$ H<sub>3</sub>C

is named as:

Which statement is true? A) Reagent for I is KOH in alcohol B) Reagent for II is KOH in aqueous medium

Consider the following reaction: Q.79

 $C_2H_5OH + PCI_5$ What product(s) may be formed? A) C<sub>2</sub>H<sub>5</sub>Cl only B) C<sub>2</sub>H<sub>5</sub>Cl and HCl

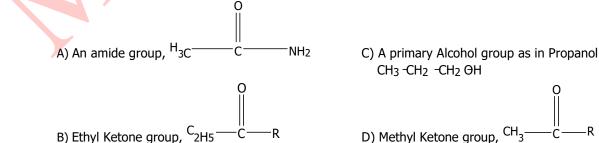
**NO**<sub>2</sub>

OH **NO** 2

Q.80

NO<sub>2</sub> A) Picric acid B) Nitro phenol

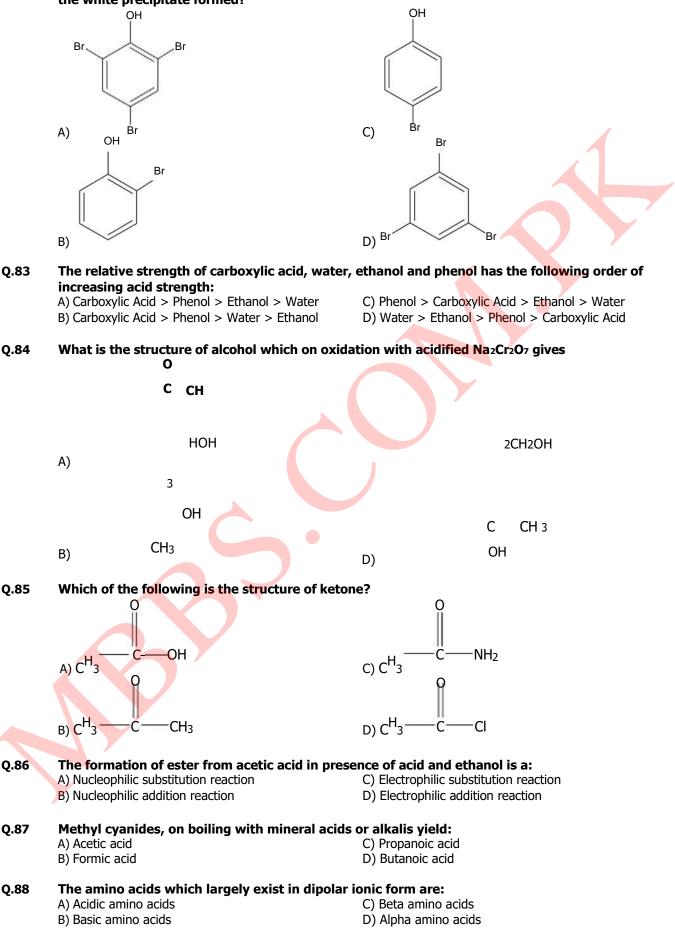
Q.81 Which group gives a yellow precipitate of triiodo methane when warmed with alkaline aqueous iodine?

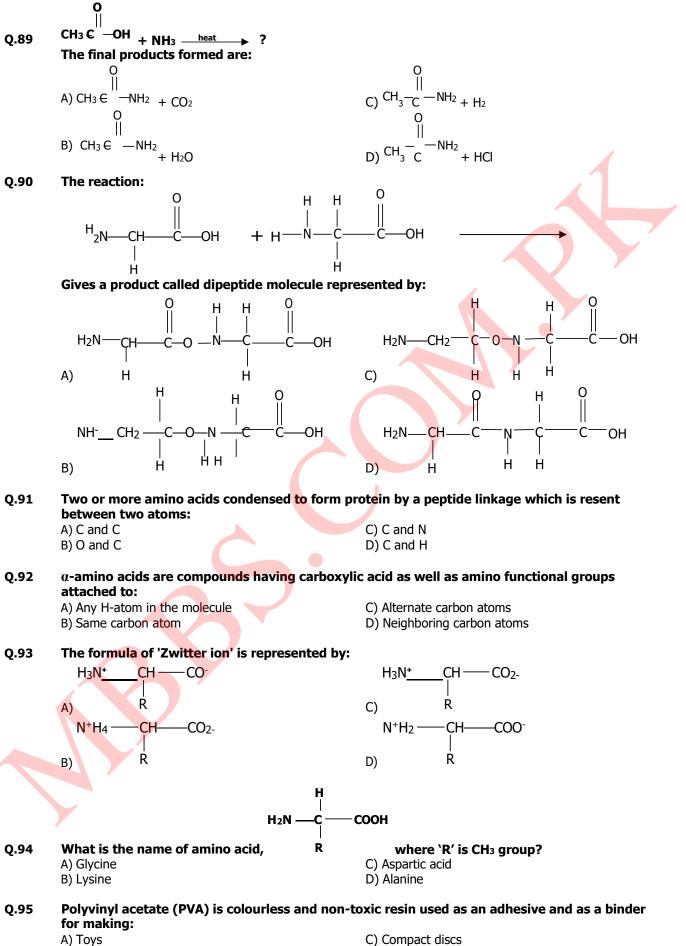


Q.75 The introduction of an alkyl group in benzene takes place in the presence of AlCl<sub>3</sub> and:

#### Page 10 of 20

Q.82 Aqueous phenol decolorizes bromine water to form a white precipitate. What is the structure of the white precipitate formed?





B) Gramophone recorders

C) Compact discs
 D) Emulsion pains

Page 1	2 of 20	
Q.96	Both ribose and deoxyribose are monosacchari	des containingcarbon atoms.
	A) Four	C) Five
	B) Six	D) Seven
Q.97	The increased quantities of cholesterol in blood causing:	
	A) Cholera B) Down's syndrome	C) Heart attack D) Phenylketonuria
	b) bown's synaronie	D) Flielly Retoliulia
Q.98	<b>Polyvinyl chloride is an example of:</b> A) Condensation polymer B) Addition polymer	C) Biopolymer D) Thermosetting polymer
Q.99	Collagen is a fibrous protein present most abu	
	A) Hair	C) Tendons
	B) Nail	D) Arteries
Q.100	<b>Animals store glucose in the form of glycogen</b> i A) Stomach	in: C) Liver and muscles
	B) Mouth	D) Small intestine
	by noutri	
Q.101	Aerobic decomposition of organic matter i.e. gl	ucose by bacteria in water sediments produces:
	A) Propene	C) Methane
	B) Ethane	D) Butane
Q.102	The yellowish-brown color in photochemical sr	nog is due to the presence of:
Q.102	A) Sulphur dioxide	C) Carbon dioxide
	B) Carbon monoxide	D) Nitrogen dioxide
	ENGLI	<u>SH</u>
Q.103	Indolence gives vent todisposi <mark>tio</mark> n in hu <del>n</del>	nan life.
•	A) Static	C) Energetic
	B) Enthusiastic	D) Filthy
0 104	The Queid/a continue and the Mueline T	nde Delste indenendense
Q.104	The Quaid'senthusiasm led the Muslims I A) Simplified	C) Onerous
	B) Latent	D) Threatening
	by Eddine	b) micatering
Q.105	Hethe incident to the back of his mind.	
	A) Revered	C) Reagitated
	B) Regulated	D) Relegated
Q.106	Hethe day they had bought such a large	house
Q.100	A) Hues	C) Rues
	B) Rows	D) Dues
500		
$\Rightarrow$		ences, some segments of each sentence are
		underlined segment of the sentence, which
		rrected. Fill the Circle corresponding to that
	letter under the segment in the MCQ Respo	onse From.
Q.107	Amjad was not conscious <u>to the</u> aberration he had co A) B)	- 1
	by all and sundry. D)	C)
Q.108	Late Agha Shahi was an outstanding genius <u>in</u> the in	-
	A)	B)
	to judge the future events, judge the future events $\underline{i}$ C)	
		)

	Page 13 of 20
Q.109	The old man was sitting <u>quite</u> bamboozled when the swindler deprived him <u>from</u> his pension money A) B)
	<u>by</u> his <u>evil</u> tricks. C) D)
Q.110	The prime minister fired a broadside at the opposition leaders. A few $\underline{of}$ his remarks $\underline{were}$ not $\underline{up at}$ the mark. A) B) C) D)
Q.111	Lucy is the diva <u>which</u> performance <u>as an</u> opera singer is <u>peerless</u> . A) B) C) D)
Q.112	The police report exonerated Anwar <u>of</u> all charges <u>of</u> corruption and job was <u>also</u> <u>restored</u> A) B) C) D)
$\Longrightarrow$	In each of the following question, four alternative sentences are given. Choose the CORRECT one and fill the Circle corresponding to that letter in the MCQ Response Form.
Q.113	A) We should pay maximum accolade for our national heroes.
	<ul><li>B) We should pay maximum accolade in our national heroes.</li><li>C) We should pay maximum accolade to our national heroes.</li><li>D) We should pay maximum accolade from our national heroes.</li></ul>
Q.114	
<b>C</b>	<ul><li>A) Does any bodys knows why the latitudes close to the equator are called the horse latitudes?</li><li>B) Do any body knows why the latitudes close to the equator are called the horse latitudes?</li><li>C) Does any body knows why the latitudes close to the equator are called the horse latitudes?</li><li>D) Does any body know why the latitudes close to the equator are called the horse latitudes?</li><li>D) Does any body know why the latitudes close to the equator are called the horse latitudes?</li></ul>
Q.115	
	<ul> <li>A) Shelley is consider to be an idealist poet.</li> <li>B) Shelley is considering to be an idealist poet.</li> <li>C) Shelley is considers to be an idealist poet.</li> <li>D) Shelley is considered to be an idealist poet.</li> </ul>
Q.116	
	<ul> <li>A) Pakistan cricket team forged an impregnable lead.</li> <li>B) Pakistan cricket team forged the impregnable lead.</li> </ul>
	C) Pakistan cricket team forged against impregnable lead. D) Pakistan cricket team forged on impregnable lead.
Q.117	
-	A) A person which job involves calculating insurance risks and payments for insurance companies by studying
	how frequently fires, accidents, death etc. happen is called an actuary. B) A person who job involves calculating insurance risks and payments for insurance companies by studying how frequently fires, accidents, death etc. happen is called an actuary.
	C) A person whose job involves calculating insurance risks and payments for insurance companies by studying how frequently fires, accidents, death etc. happen is called an actuary.
	<ul> <li>D) A person whose job involves calculating insurance risks and payments for insurance companies by studying how frequently fires, accidents, death etc. happen are called an actuary.</li> </ul>
Q.118	
AIT TO	A) His addled brain refuse to think clearly and solve the problem.
	B) His addle brain refused to think clearly and solve the problem.

- C) His addle brain refuse to think clearly and solve the problem.
- D) His addled brain refused to think clearly and solve the problem.

#### Q.119

- A) The children had bloomed while their stay on the farm.B) The children had bloomed during their stay on the farm.
- C) The children had bloomed on their stay on the farm.
- D) The children was bloomed while their stay on the farm.

### 

### Page 14 of 20

#### Q.120

A) I should had business acumen.

B) I should have business acumen.

#### Q.121

A) No one is casting aspersions to you.B) No one is casting aspersions at you.

#### Q.122

A) This is one of the bifurcated road.B) This is one of the bifurcated roads.

C) I should has business acumen.

D) I should may have been business acumen.

- C) No one is casting aspersions on you.D) No one is casting aspersions with you.
- C) This is one of them bifurcated road D) This is one off the bifurcated road.

In each of the following question, four alternative meanings of a word are given. You have to select the NEAREST CORRECT MEANING of the given word and fill the appropriate Circle on the MCQ Response Form.

Q.123	HEINOUS A) Heroic B) Humorous	C) Odious D) Hone
Q.124	<b>ILLICIT</b> A) Intimate B) Licentious	C) Illegal D) Limited
Q.125	MOTIF A) Tough B) Stuff	C) Motion D) Design
Q.126	INCULCATE A) Calculate B) Instill	C) Instigate D) Stimulate
Q.127	INIQUITY A) Inequality B) Injustice	C) Wickedness D) Efficiency
Q.128	INTRANSIGENT A) Parallel B) Inflexible	C) Adventurous D) Spirited
Q.129	LAMPOON A) Irk B) Gratification	C) Lacerate D) Ridicule
Q.130	MESMERIZE A) Objectify B) Modify	C) Amalgamate D) Fascinate
Q.131	OBLITERATE A) Sanctify B) Obscure	C) Annihilate D) Oplate
Q.132	MALEVOLENCE A) Empathy B) Maligning	C) Hostility D) Management
	<b>BIOLO</b>	<u>GY</u>

#### Q.133 The simplest independent unit of life is known as:

A) Bacterial colony B) Cell C) Chloroplast D) DNA

Q.134	• •	Page 15 of 20 s within the cell are engulfed and digested within the
	lysosome is known as:	
	A) Endocytosis	C) Hydrolysis
	B) Exocytosis	D) Autophagy
<b>2.135</b>	The plants having foreign DNA incorporate	ed into their cells are called:
-	A) Clonal plants	C) Biotech plants
	B) Transgenic plants	D) Tissue cultured plants
Q.136	Pasteurization technique is widely used fo	
	A) Water	C) Milk products
	B) Heat	D) Vaccines
Q.137	The production of genetically identical cor	pies of organisms by asexual reproduction is called:
2.137	A) Genetic engineering	C) Hydroponic culture technique
	B) Integrated disease management	D) Cloning
	b) Integrated disease management	D) cioning
Q.138		suggests that proteins are embedded in lipid bilayer:
	A) Unit membrane	C) Permeable
	B) Fluid mosaic	D) Ultracentrifuge
1 1 2 0	The function of nucleoble is to maker	
Q.139	The function of nucleolus is to make:	
	A) rDNA	C) RNA
	B) Ribosomes	D) Chromosomes
Q.140	Lipid metabolism is the function of:	
-	A) Mitochondria	C) RER
	B) Sarcoplasmic reticulum	D) SER
Q.141	The enzymes of lysosomes are synthesized	
	A) RER	C) Chloroplast
	B) SER	D) Golgi Apparatus
Q.142	Centrioles are made up ofmicrotul	bules:
	A) 9	C) 3
	B) 27	D) 12
Q.143		it in higher plants and found in animal cells:
	A) Centriole	C) Mitochondria
	B) Cytoskeleton	D) Cytoplasm
Q.144	The soluble part of cytoplasm or fluid that	remains when all organelles are removed is known
•	as:	
	A) Solution	C) Cytoskeleton
	B) Gelatin material	D) Cytosol
N 1 4 F	The subsymptotic of the nuclear envelo	and is at all see continuous with they
Q.145	The outer membrane of the nuclear envelo A) Golgi apparatus	C) Lysozymes
	B) Endoplasmic Reticulum	D) Peroxisomes
2.146	Down's syndrome is a result of non-disiu	nction of pair of chromosomes that fails to
212.10	segregate:	
	A) 21 <sup>st</sup>	C) 18 <sup>th</sup>
	B) 22 <sup>nd</sup>	D) 24 <sup>th</sup>
Q.147	is most abundant carbohydrate in	
	A) Waxes	C) Starch
	B) Glycerol	D) Cellulose
Q.148	Which of the following is a keto sugar:	
	A) Glyceraldehyde	C) Ribose
	B) Dihydroxy-acetone	D) Glucose
	, , ,	,

Q.149	6 of 20 Amino acid in which the R-group is	hydrogen is:	
• -	A) Glycine	C) Leucine	
	B) Alanine	D) Valine	
Q.150		esters formed by condensation reaction between:	
	A) Fatty acids and water	C) Fatty acids and glucose	
	B) Fatty acids and alcohols	D) Fatty acids and phosphates	
Q.151	Which of the following is purine:		
<b>L</b>	A) Guanine	C) Thymine	
	B) Cytosine	D) Uracil	
	b) Cytosine	b) trach	
Q.152		tly and permanently bonded to enzyme then it will be called:	
	A) Coenzyme	C) Activator	
	B) Prosthetic group	D) Apoenzyme	
Q.153	Optimum pH value for the working	of pancreatic lipase is:	
2.200	A) 4.50	C) 2.00	
		D) 9.00	
	B) 7.60	D) 9.00	
Q.154		me is flexible and when a substrate combines with it, cause	
	changes in enzyme structure is kno		
	A) Lock & key model	C) Sliding filament model	
	B) Induce fit model	D) Specificity model	
0 155	All coonzymes are derived from		
Q.155	All coenzymes are derived from:	() Carbaby durate	
	A) Proteins	C) Carbohydrate	
	B) Nucleic acids	D) Vitamins	
Q.156	Reverse transcription is used to make DNA copies of:		
-	A) Host RNA	C) Host DNA	
	B) Viral RNA	D) Viral DNA	
0 1 5 7	Antibiotics are unadread by funcia	u desetais ha desis of success	
Q.157	Antibiotics are produced by fungi and certain bacteria of group:		
	A) Actinomycetes	C) Ascomycetes	
	B) Oomycetes	D) Basidiomycetes	
0 1 5 0	Which statement about bestavia is		
Q.158	Which statement about bacteria is true:		
	A) Gram positive bacteria have more lipi		
	B) Gram negative bacteria have more lipids in their cell wall		
	C) Lipids are absent in cell wall of both	gram positive and negative bacteria	
	D) Both have equal amount of lipids		
Q.159	Fungi which cause thrush in humar	ns:	
2.200	A) Sarcomeres	C) Lovastatin	
	B) Candidiasis	D) Aspergillus	
	b) Callululasis	D) Aspergillus	
Q.160		ooked is consumed by humans, they become infected by:	
	A) Tape worm	C) Pin worm	
	B) Hook worm	D) Round worm	
0.1.61		and hur	
Q.161	Sleeping sickness in humans is cau		
	A) Trypanosoma	C) Anopheles	
	B) Plasmodium	D) Andes	
Q.162	Schistosoma is a parasite that lives	s in theof the host.	
	A) Intestine	C) Liver	
	B) Kidney	D) Blood	
	d) Nulley		
Q.163	The cavity between body wall and a	alimentary canal is:	
<u>.</u>	A) Coelom	C) Endoderm	
	B) Mesoderm	D) Mesoglea	
		ען ויובטעופמ	

Page 17 of 20

Q.164	The layer which forms the lining of digestive tract and glands of digestive system is:		
	A) Ectoderm	C) Endoderm	
	B) Mesoderm	D) Mesoglea	
Q.165	Which one of the following vitamins is produced by microflora of large intestine?		
	A) Vitamin K	C) Vitamin A	
	B) Vitamin C	D) Vitamin D	
Q.166	is activated toby Enterokinase/en duodenum:	teropeptidase enzyme secreted by the lining of	
	A) Pepsinogen, Pepsin	C) Trypsinogen, Trypsin	
	B) Pepsinogen, Trypsin	D) Chymotrypsinogen, Chymotrypsin	
Q.167	Which of the following are absorbed in the larg	je intestine?	
	A) Water and salts	C) Salts and glycerol	
	B) Water and peptones	D) Amino acids and sugars	
Q.168	Saliva is basically composed of water, mucus, a	amylase and:	
-	A) Sodium bicarbonate	C) Sodium hydroxide	
	B) Sodium chloride	D) Hydrocarbons	
Q.169	The total inside capacity of lungs is for n	nan.	
	A) 6.7 liters	C) 7 liters	
	B) 2.5 liters	D) 5 liters	
Q.170	The average life span of red blood cell is about		
	A) Four months	C) Five months	
	B) Two months	D) One month	
Q.171	The lymphatic vessels of the body empty the ly	mph into blood stream at the:	
	A) Abdominal vein	C) Jugular vein	
	B) Subclavian vein	D) Bile duct	
Q.172	Right atrium is separated from right ventricle l	by:	
	A) Tricuspid valve	C) Semilunar valve	
	B) Bicuspid valve	D) Septum	
Q.173	Site of filtration in neph <mark>ron is:</mark>		
	A) Glomerulus and Bowman's capsule	C) Ascending and descending arm	
	B) Proximal and Distal end	D) Loop of Henle	
Q.174	Antidiuretic hormone increases the reabsorption		
	A) Amino acids	C) Ammonia	
	B) Salts	D) Water	
Q.175		r thick loop of Henle is promoted by the action	
	of aldosterone:		
	A) K <sup>+</sup>	C) Ca++	
	B) Cl-	D) Na <sup>+</sup>	
Q.176		the internal environment from the fluctuations	
	of external environment is called as:		
	A) Behavior of organisms	C) Thermoregulation	
	B) Adaptation	D) Homeostasis	
Q.177	Active pumping out of Na <sup>+</sup> occurs at which part		
	A) Proximal tubule	C) Ascending loop of Henle	
	B) Descending loop of Henle	D) Collecting ducts	
Q.178	The structures which respond when they are st neuron are:	imulated by impulse coming through motor	
	A) Receptors	C) Transducers	
	B) Responders	D) Effectors	

Q.179	8 of 20 Thalamus and cerebrum are the part of:		
Q.17.5	A) Fore brain	C) Hind brain	
	B) Mid brain	D) Spinal cord	
		D) Spinar coru	
Q.180	There is also EVIDENCE that high levels of	may contribute to the onset of Alzheimer	
•	disease:		
	A) Mg	C) Al	
	B) Mo	D) Ca	
	5)110		
Q.181	L-dopa or Levodopa is used to get some relief from??		
-	A) Epilepsy	C) Parkinson's disease	
	B) Alzheimer's disease	D) Dementia	
	b) Alzheimer 5 disease	D) Demenda	
Q.182	Spermatogonia differentiate directly into?		
	A) Primary spermatocytes	C) Spermatozoa	
	B) Secondary spermatocytes	D) Spermatids	
Q.183	Treponema palladium causes?		
	A) AIDS	C) Syphilis	
	B) Genital herpes	D) Gonorrhea	
	-, -, -, -, -, -, -, -, -, -, -, -, -, -	_,	
A 10/	What is the location of interstitial cells in test	toc 7	
Q.184			
	A) Inside the seminiferous tubules	C) Among the germinal epithelial cells	
	B) Between the seminiferous tubules	D) Around the testes	
Q.185	A type of cells in human testes which produce		
	A) Germ cells	C) Interstitial cells	
	B) Sertoli cells	D) Spermatocytes	
	,		
Q.186	The hormone produced from corpus luteum is	5:	
<b>L</b>	A) Prolactin	C) Progesterone	
	B) FSH	D) LH	
0 1 9 7	The length of myofibril from one 7 band to th	a paytic described as	
Q.187	The length of myofibril from one Z-band to th		
	A) Sarcolemma	C) Sarcomere	
	B) Sarcoplasm	D) Muscle fiber	
Q.188	The Ca <sup>++</sup> ions released during a muscle fiber o		
	A) Myosin	C) Troponin	
	B) Actin	D) Tropomyosin	
0 1 0 0			
ñ'T8A	The joint that allows the movement in severa	I directions is called:	
Q.189	The joint that allows the movement in severa A) Hinge joint		
<b>Ч</b> .188	A) Hinge joint	C) Cartilagous joint	
<i>б</i> .т <u>8</u> а			
-	A) Hinge joint B) Ball and Socket joint	C) Cartilagous joint D) Fibrous joint	
-	<ul> <li>A) Hinge joint</li> <li>B) Ball and Socket joint</li> <li>Where can we find H zone in the figure of find</li> </ul>	C) Cartilagous joint D) Fibrous joint e structure of skeletal muscle's myofibril?	
-	<ul> <li>A) Hinge joint</li> <li>B) Ball and Socket joint</li> <li>Where can we find H zone in the figure of fine</li> <li>A) In the mid of A band</li> </ul>	<ul> <li>C) Cartilagous joint</li> <li>D) Fibrous joint</li> <li>e structure of skeletal muscle's myofibril?</li> <li>C) Besides the Z-line</li> </ul>	
-	<ul> <li>A) Hinge joint</li> <li>B) Ball and Socket joint</li> <li>Where can we find H zone in the figure of find</li> </ul>	C) Cartilagous joint D) Fibrous joint e structure of skeletal muscle's myofibril?	
-	<ul> <li>A) Hinge joint</li> <li>B) Ball and Socket joint</li> <li>Where can we find H zone in the figure of fine</li> <li>A) In the mid of A band</li> </ul>	<ul> <li>C) Cartilagous joint</li> <li>D) Fibrous joint</li> <li>e structure of skeletal muscle's myofibril?</li> <li>C) Besides the Z-line</li> </ul>	
Q.190	<ul> <li>A) Hinge joint</li> <li>B) Ball and Socket joint</li> <li>Where can we find H zone in the figure of fine</li> <li>A) In the mid of A band</li> <li>B) In I-band</li> </ul>	<ul> <li>C) Cartilagous joint</li> <li>D) Fibrous joint</li> <li>e structure of skeletal muscle's myofibril?</li> <li>C) Besides the Z-line</li> <li>D) Along the I-band</li> </ul>	
Q.190	<ul> <li>A) Hinge joint</li> <li>B) Ball and Socket joint</li> <li>Where can we find H zone in the figure of fine</li> <li>A) In the mid of A band</li> <li>B) In I-band</li> <li>First vertebra of cervical region of vertebral contents</li> </ul>	<ul> <li>C) Cartilagous joint</li> <li>D) Fibrous joint</li> <li>e structure of skeletal muscle's myofibril?</li> <li>C) Besides the Z-line</li> <li>D) Along the I-band</li> <li>column is known as:</li> </ul>	
Q.189 Q.190 Q.191	<ul> <li>A) Hinge joint</li> <li>B) Ball and Socket joint</li> <li>Where can we find H zone in the figure of fine</li> <li>A) In the mid of A band</li> <li>B) In I-band</li> <li>First vertebra of cervical region of vertebral content</li> <li>A) Atlas</li> </ul>	<ul> <li>C) Cartilagous joint</li> <li>D) Fibrous joint</li> <li>e structure of skeletal muscle's myofibril?</li> <li>C) Besides the Z-line</li> <li>D) Along the I-band</li> <li>column is known as:</li> <li>C) Thoracic</li> </ul>	
Q.190	<ul> <li>A) Hinge joint</li> <li>B) Ball and Socket joint</li> <li>Where can we find H zone in the figure of fine</li> <li>A) In the mid of A band</li> <li>B) In I-band</li> <li>First vertebra of cervical region of vertebral contents</li> </ul>	<ul> <li>C) Cartilagous joint</li> <li>D) Fibrous joint</li> <li>e structure of skeletal muscle's myofibril?</li> <li>C) Besides the Z-line</li> <li>D) Along the I-band</li> <li>column is known as:</li> </ul>	
Q.190 Q.191	<ul> <li>A) Hinge joint</li> <li>B) Ball and Socket joint</li> <li>Where can we find H zone in the figure of fine</li> <li>A) In the mid of A band</li> <li>B) In I-band</li> <li>First vertebra of cervical region of vertebral c</li> <li>A) Atlas</li> <li>B) Sacral</li> </ul>	<ul> <li>C) Cartilagous joint</li> <li>D) Fibrous joint</li> <li>e structure of skeletal muscle's myofibril?</li> <li>C) Besides the Z-line</li> <li>D) Along the I-band</li> <li>column is known as:</li> <li>C) Thoracic</li> </ul>	
Q.190 Q.191	<ul> <li>A) Hinge joint</li> <li>B) Ball and Socket joint</li> <li>Where can we find H zone in the figure of fine</li> <li>A) In the mid of A band</li> <li>B) In I-band</li> <li>First vertebra of cervical region of vertebral of</li> <li>A) Atlas</li> <li>B) Sacral</li> <li>Chemically insulin and glucagon are:</li> </ul>	<ul> <li>C) Cartilagous joint</li> <li>D) Fibrous joint</li> <li>e structure of skeletal muscle's myofibril?</li> <li>C) Besides the Z-line</li> <li>D) Along the I-band</li> <li>column is known as:</li> <li>C) Thoracic</li> <li>D) Axis</li> </ul>	
Q.190	<ul> <li>A) Hinge joint</li> <li>B) Ball and Socket joint</li> <li>Where can we find H zone in the figure of fine</li> <li>A) In the mid of A band</li> <li>B) In I-band</li> <li>First vertebra of cervical region of vertebral of</li> <li>A) Atlas</li> <li>B) Sacral</li> <li>Chemically insulin and glucagon are:</li> <li>A) Carbohydrates</li> </ul>	<ul> <li>C) Cartilagous joint</li> <li>D) Fibrous joint</li> <li>e structure of skeletal muscle's myofibril?</li> <li>C) Besides the Z-line</li> <li>D) Along the I-band</li> <li>column is known as:</li> <li>C) Thoracic</li> <li>D) Axis</li> <li>C) Lipids</li> </ul>	
Q.190 Q.191	<ul> <li>A) Hinge joint</li> <li>B) Ball and Socket joint</li> <li>Where can we find H zone in the figure of fine</li> <li>A) In the mid of A band</li> <li>B) In I-band</li> <li>First vertebra of cervical region of vertebral of</li> <li>A) Atlas</li> <li>B) Sacral</li> <li>Chemically insulin and glucagon are:</li> </ul>	<ul> <li>C) Cartilagous joint</li> <li>D) Fibrous joint</li> <li>e structure of skeletal muscle's myofibril?</li> <li>C) Besides the Z-line</li> <li>D) Along the I-band</li> <li>column is known as:</li> <li>C) Thoracic</li> <li>D) Axis</li> </ul>	
Q.190 Q.191	<ul> <li>A) Hinge joint</li> <li>B) Ball and Socket joint</li> <li>Where can we find H zone in the figure of fine</li> <li>A) In the mid of A band</li> <li>B) In I-band</li> <li>First vertebra of cervical region of vertebral of</li> <li>A) Atlas</li> <li>B) Sacral</li> <li>Chemically insulin and glucagon are:</li> <li>A) Carbohydrates</li> </ul>	<ul> <li>C) Cartilagous joint</li> <li>D) Fibrous joint</li> <li>e structure of skeletal muscle's myofibril?</li> <li>C) Besides the Z-line</li> <li>D) Along the I-band</li> <li>column is known as:</li> <li>C) Thoracic</li> <li>D) Axis</li> <li>C) Lipids</li> </ul>	
Q.190 Q.191 Q.192	<ul> <li>A) Hinge joint</li> <li>B) Ball and Socket joint</li> <li>Where can we find H zone in the figure of fine</li> <li>A) In the mid of A band</li> <li>B) In I-band</li> <li>First vertebra of cervical region of vertebral centric (A) Atlas</li> <li>B) Sacral</li> <li>Chemically insulin and glucagon are:</li> <li>A) Carbohydrates</li> <li>B) Proteins</li> </ul>	<ul> <li>C) Cartilagous joint</li> <li>D) Fibrous joint</li> <li>e structure of skeletal muscle's myofibril?</li> <li>C) Besides the Z-line</li> <li>D) Along the I-band</li> <li>column is known as:</li> <li>C) Thoracic</li> <li>D) Axis</li> <li>C) Lipids</li> <li>D) Nucleic acids</li> </ul>	
Q.190 Q.191 Q.192	<ul> <li>A) Hinge joint</li> <li>B) Ball and Socket joint</li> <li>Where can we find H zone in the figure of fine</li> <li>A) In the mid of A band</li> <li>B) In I-band</li> <li>First vertebra of cervical region of vertebral c</li> <li>A) Atlas</li> <li>B) Sacral</li> <li>Chemically insulin and glucagon are:</li> <li>A) Carbohydrates</li> <li>B) Proteins</li> <li>Hormones secreted by anterior pituitary and weight the secret s</li></ul>	<ul> <li>C) Cartilagous joint</li> <li>D) Fibrous joint</li> <li>e structure of skeletal muscle's myofibril?</li> <li>C) Besides the Z-line</li> <li>D) Along the I-band</li> <li>column is known as:</li> <li>C) Thoracic</li> <li>D) Axis</li> <li>C) Lipids</li> <li>D) Nucleic acids</li> </ul>	
Q.190 Q.191	<ul> <li>A) Hinge joint</li> <li>B) Ball and Socket joint</li> <li>Where can we find H zone in the figure of fine</li> <li>A) In the mid of A band</li> <li>B) In I-band</li> <li>First vertebra of cervical region of vertebral centric (A) Atlas</li> <li>B) Sacral</li> <li>Chemically insulin and glucagon are:</li> <li>A) Carbohydrates</li> <li>B) Proteins</li> <li>Hormones secreted by anterior pituitary and wendocrine glands are known as:</li> </ul>	<ul> <li>C) Cartilagous joint</li> <li>D) Fibrous joint</li> <li>e structure of skeletal muscle's myofibril?</li> <li>C) Besides the Z-line</li> <li>D) Along the I-band</li> <li>column is known as:</li> <li>C) Thoracic</li> <li>D) Axis</li> <li>C) Lipids</li> <li>D) Nucleic acids</li> <li>which controls the secretion of hormones of oth</li> </ul>	
Q.190 Q.191 Q.192	<ul> <li>A) Hinge joint</li> <li>B) Ball and Socket joint</li> <li>Where can we find H zone in the figure of fine</li> <li>A) In the mid of A band</li> <li>B) In I-band</li> <li>First vertebra of cervical region of vertebral c</li> <li>A) Atlas</li> <li>B) Sacral</li> <li>Chemically insulin and glucagon are:</li> <li>A) Carbohydrates</li> <li>B) Proteins</li> <li>Hormones secreted by anterior pituitary and weight the secret s</li></ul>	<ul> <li>C) Cartilagous joint</li> <li>D) Fibrous joint</li> <li>e structure of skeletal muscle's myofibril?</li> <li>C) Besides the Z-line</li> <li>D) Along the I-band</li> <li>column is known as:</li> <li>C) Thoracic</li> <li>D) Axis</li> <li>C) Lipids</li> </ul>	

		Fage 19 01 20
Q.194	Alpha cells of Islets of Langerhans secre	ete hormone called:
<b>L</b>	A) Glucocorticoid	C) Glucagon
	B) Insulin	D) Aldosterone
Q.195	Which of the following is the function of	falucagon hormone?
Q.195		
	A) Glucose to lipids	C) Glucose to glycogen
	B) Glucose to proteins	D) Glycogen to glucose
Q.196	In passive immunity which of the follow	ving components are injected into body?
Q.190		
	A) Antigens	C) Serum
	B) Immunogens	D) Immunoglobulins
Q.197	Which part of the antibody recognizes t	he antigen during immune response?
Q.137		
	A) Heavy part	C) Light part
	B) Variable part	D) Consonant part
Q.198	Two identical light chains and two ident	ical heavy chains in antibody molecule are linked by:
Q.150	A) Disulphide bridges	C) Glycerol bond
	, , ,	
	B) Peptide bond	D) Ionic bond
Q.199	Antibodies are produced against invadir	na cells hv:
Q.133		C) Basophils
	A) Lymphocytes	
	B) Basophils	D) Neutrophils
Q.200	In the structural diagram of an antibody	molecule which portion is occupied by variable chains?
4. <b>-</b> 00	A) Lower region	C) Middle region
	B) Upper region	D) In between chains
Q.201	Every molecule of NADH, fed into ETC p	roduce <mark>s:</mark>
<b>L</b>	A) 2 ATP	C) 4 ATP
	B) 3 ATP	D) 6 ATP
Q.202	Final acceptor of electrons in respiratory	y chain is:
	A) Cytochrome a	C) Cytochrome a <sup>3</sup>
	B) Oxygen	D) Cytochrome c
Q.203	The end product of anaerobic respiration	n in humans and other mammals is:
-	A) Pyruvic acid	C) Lactic acid
	B) Ethanol	D) Glucose
Q.204	A biochemical process which occurs with	nin a cell to breakdown complex compounds to produce
-	energy is called:	
	A) Respiration	C) Oxidation reduction
	B) Photosynthesis	D) Photophosphorylation
Q.205	Which part of chlorophyll molecule abso	orbs light?
		C) Pyrrole
	A) Phytol	, ,
	B) Porphyrin ring	D) Thylakoid membrane
Q.206	The DNA molecule formed from messen	ger-RNA by reverse transcriptase is called??
Q.200	A) Complementary DNA	
		C) Chimeric DNA
	B) Recombinant DNA	D) Plasmid DNA
Q.207	The agent which separates the two stra	nds of DNA in PCR is??
2.207		
	A) DNA ligase	C) Heat
	B) Primer	D) Helicase
Q.208	Cystic fibrosis patient lack a gene that o	codes for trans-membrane carrier of??
2.200	A) Na <sup>+</sup> ions	C) Ca <sup>++</sup> ions
	B) Cl <sup>_</sup> ions	D) K <sup>+</sup> ions

Q.209	0 of 20 The phage commonly used as a vector in g A) Lambda phage B) Gamma phage	<b>genetic engineering is?</b> C) T <sub>2</sub> phage D) T <sub>4</sub> phage
Q.210	<b>Restriction endonucleases are naturally o</b> A) Viruses	<b>ccurring enzymes of:</b> C) Fungi
	B) Bacteria	D) Plants
Q.211	In an ecosystem mycorrhizae are an exam	ıple of:
-	A) Predation	C) Mutualism
	B) Symbiosis	D) Parasitism
Q.212	As a result of destruction of ozone layer the	nere is significant increase in:
	A) Ultra-violet radiations	C) Nitrogen oxide
	B) Greenhouse gases	D) Sulphur oxide
Q.213	Higher rate of a biological activity in a nut	trient rich nond water is called
Q.215	A) Water pollution	C) Eutrophication
	B) Air pollution	D) Industrial effects
	-)	-,
Q.214	Living part of ecosystem is:	
	A) lithosphere	C) Community
	B) Hydrosphere	D) Biosphere
Q.215	A living association between two living org	anisms of different species which is beneficial to both
<b>L</b>	the partners is called:	
	A) Commensalism	C) Mutualism
	B) Parasitism	D) Predation
Q.216	The structures which are reduced during th	ne course of evolution and have no apparent function
Q.210	are called:	ie course of evolution and have no apparent function
	A) Regenerated organs	C) Saltatory organs
	B) Vestigial organs	D) Useless organs
0 24 7	When a name summaries the effect of another	have a stand they large the sheward and is to make
Q.217	as:	ther gene at another locus the phenomenon is termed
	A) Over dominance	C) Epistasis
	B) Pleiotropy	D) Co-dominance
Q.218	Phenylketonuria is an example of:	C) In consistent
	A) Polyploidy	C) Inversion
	B) Transmutation	D) Point mutation
Q.219	A situation in which one gene affects two	or more unrelated characters is called:
-	A) Epistasis	C) Dominance relation
	B) Pleiotropy	D) Polygenes
Q.220	The mutation which causes change in the	sequence of DNA is called:
ي.220	A) Point mutation	C) Deletion
	B) Chromosomal mutation	D) Inversion
	,	
		tions 2017 - ARK)
	(Copyright Protected MCA	T Preparations 2017 - ARK)

### **MBBS.COM.PK**

UHS MDCAT PAST PAPERS BOOK Hard Copy Available Now.



## **University of Health Sciences, Lahore**



Max. Marks: 1100

### **ENTRANCE TEST - 2015** For F.Sc. and Non-F.Sc. Students **Time Allowed: 150 minutes**

#### **Instructions:**

Total MCQs: 220

- i. Read the instructions on the MCQs Response Form carefully.
- ii. Choose the **Single Best Answer** for each question.
- Candidates are strictly prohibited from giving any identification mark except iii. Roll No. & Signature in the specified columns only.

## COMPULSORY QUESTION FOR IDENTIFICATION

Q

B)

Q.1

Q.2

Q.3

Q.4

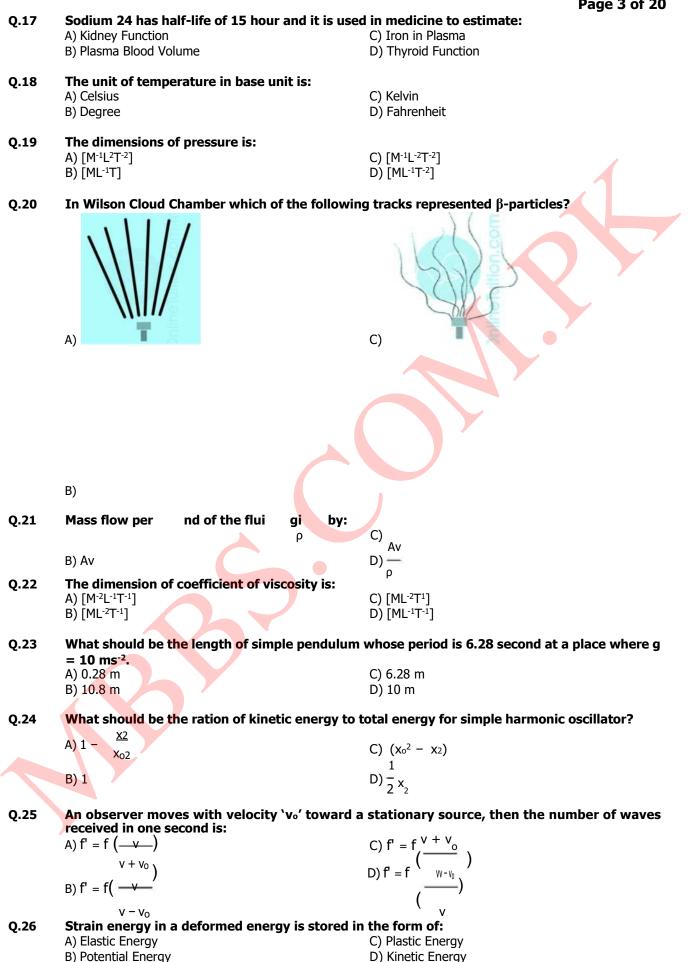
B) Not less than  $\frac{1}{eV}$ 

<b>Q-ID. What is the color of your Que</b> A) White.	stion Paper? C) Pink.	B C D
<b>Blue.</b> D) Green.	ІВ О	• 0 0
	Paper is Plue Fill	000
Ans: Colour of your Question the Circle Corresponding		000
against 'ID' in your MCQ		000
(Exactly as shown in t <mark>h</mark> e diag	ram).	
<u>PHYS</u>		
One method of creating an inverted popul illuminating the laser material with light.	ation is known as <u></u> and c	onsist of
A) Optical Pumping	C) Bremsstrahlung	
C) Excitation	D) Holography	
In population inversion (Ruby Laser) atoms can A) 10 <sup>-11</sup>	C) 10 <sup>-3</sup>	
C) 10 <sup>-8</sup>	D) 10 <sup>+3</sup>	
If electrons of charge 'e' moving with velocity		l difference
Y' and strike a metal target, then velocity of e	electrons is:	
A) $\frac{Ve}{m}$	C) √ <u>Ve</u> 2m_	
в) √ <u>Ve</u>	D) √ <del>2Ve</del>	
m	m	
In X-ray tube, electrons after being accelerate	ed through velocity `v' strike the targe	t, then the
wavelength of emitted X-rays is:		-
hc A) Not greater than —	h C) Equal to the	
hc eV	hc mV	

D) Equal to  $\frac{1}{eV}$ 

Q.5	In the reaction,	
		ectron <sup>0</sup> e emits from the
	<b>92 91 -1</b> A) 1 <sup>st</sup> Orbit B) 2 <sup>nd</sup> Orbit	C) Nucleus D) Valence Shell
Q.6	B) 2 <sup>nd</sup> Orbit	D) Valence Shell
	According to the equation ${}^{A}X \longrightarrow Y + 3\alpha$ parti	cles, what are the atomic and mass numbers
	of `Y'?	$\sim$ 7 + 1 A
	A) Z - 6, A - 12 B) Z - 2, A - 4	C) Z + 1, A D) Z + 3, A
Q.7	A certain radioactive nuclide of mass number	x' decays by $\beta$ -emission and $\alpha$ -emission to a
	second nuclide of mass number `t'. Which of fo	
	A) $x = t + 4$	C) x - 3 = t D) x - 1 = t
	B) $x = t - 4$	D) x - 1 = t
Q.8	During the decay of radioactive isotopes $^{23}$ 2X	to a stable isotope, six $\alpha$ -particles and four $\beta$ -9
<b>L</b>		er 'Z' and mass number 'A' of the stable isotopes.
	A) Z = 70, A = 220	C) Z = 82, A = 212
	B) Z = 78, A = 212	D) Z = 82, A = 208
Q.9	Cobalt 60 is used in medicine and is an intense	e source of:
	A) α-particles	C) γ-rays
	B) $\beta$ -particles	D) Neutrons
Q.10	In fluid flow, for the equation of continuity And	
	doubled, then what will be the cross-sectional A) Double	C) (Half) <sup>2</sup>
	B) Half	D) $(Double)^2$
Q.11	The value of least distance vision for normal ey	
	A) 20 cm B) 30 cm	C) 25 cm D) 40 cm
Q.12	The distance between two dark adjacent fring	
	A) $\Delta Y = \frac{\lambda L}{\Delta T}$	C) $\Delta Y = \frac{\lambda d}{d}$
	d	
	B) $\Delta Y = \frac{\Lambda}{H}$	D) $\Delta Y = \frac{d}{dt}$
	, dL	λL
Q.13		ation $x = 0.05$ cm, distance between screen and
	slit D = 200 cm, fringes separation x = 0.13 cm A) $\lambda = 1.23 \times 10^{-2} \text{ m}$	c) $\lambda = 4.55 \times 10^{-5} \text{ m}$
	B) $\lambda = 3.25 \times 10^{-7} \text{ m}$	D) $\lambda = 5.1 \times 10^{-7} \text{ m}$
Q.14	In normal adjustment of compound microscop	e, the eye piece is positioned so that the final
	image is formed at: A) Optical Center	C) Principle Focus
	B) Infinity	D) Near Point
	-,	_ ,
Q.15		<ul><li>) for a body executing simple harmonic motion</li></ul>
	is:	
	A) $v_0 = \omega x_0$	C) $v_0 = v \sqrt{1 - \frac{x^2}{xo^2}}$ D) $v_0 = m \sqrt{x^2 - x^2}$
	B) $v_o = \frac{k}{\sqrt{x^2 - x^2}}$	D) $v_0 = m \sqrt{x^2 - x^2}$
	m °	U
Q. 16	A body is having weight 20 N, when the elevat	or is descended with a = 0.1 ms <sup>-2</sup> , then the value
-	of tension 'T' is:	,
	A) 106 N	C) 1 09 N

A) 196 N	C) 1.98 N
C) 19.8 N	D) 2 N



Page 4 of 20 Q.27 A wire of area of cross section 'A' and original length 'l' is subjected to a load 'L'. A second wire of same material with an area is '2A' and length '2I' is subjected to the same load 'L'. If the extension in first wire is 'X' and second wire is 'Y', find the ratio 'X/Y'. 1 1 C) A) 4 в) <u>1</u> D) 2 Two sample of gases 1' and 2' are taken at same temperature and pressure but the ratio of Q.28 number of their volume is  $V_1:V_2 = 2:3$ . What is the ration of number of moles of the gas sample? A) 3:2 C) 4:9 B)  $\sqrt{2}:\sqrt{3}$ D) 2:3 Root mean square velocity of a gas having pressure 'P' and density ' $\rho'$  is given by: Q.29 с) √<sup>3</sup><u>р</u> A) P ЗP 3ρ D) B) Q.30 When the rate of gas changes without change in temperature, the gas is said to undergo: A) Isothermal Process C) Isochoric Process **B)** Adiabatic Process D) Isobaric Process Q.31 What is the 273 k on the Celsius scale of temperature? A) 0.15 ℃ C) -0.15 °C B) 273.15 °C D) -273.15 ℃ If heat 'Q1' is absorbed at temperature 'T' and heat 'Q2' is absorbed at temperature of triple point Q.32 of water, then unknown temperature of system (in K) is: A) 273.16 C) 273.16 Q B) 273.16 Q<sub>2</sub>/Q<sub>1</sub> D) 273.16 O<sub>1</sub>/O<sub>2</sub> Q.33 If the fundamental logic gates are connected as: Δ В Х A R What are the mathematical notation for this logic gate? A) (A -B).(A + B) B) (A -B) (A -B)

# Q.34 Which combinations of seven identical resistors each of 2 Ω gives rise to the resultant of 10/11 Ω? A) 5 Parallel, 2 Series C) 3 Parallel, 4 Series

D) AB+ AB

A) 5 Parallel, 2 Series	C) 3 Parallel, 4 Series
B) 4 Parallel, 3 Series	D) 2 Parallel, 5 Series

## Q.35 If a resistor having resistance 'R' is cut into three equal parts, then the equivalent of parallel combination is:

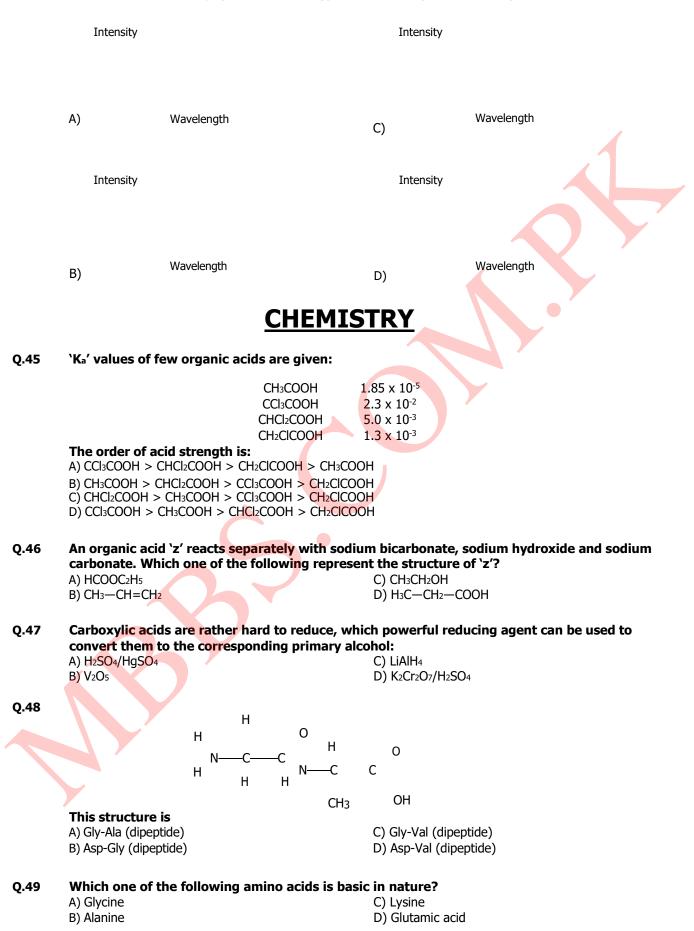
6	R
A) —	C) <del>-</del>
R	
A) — R B) <u>3</u> R	C) — 9 D) <del>R</del> 3
' R	13

				A B		Y			
A)					C)				
	0	0	0			0	0	1	
	0	1	1			0	1	0	
	1	0	1			1	0	0	
	1	1	1			1	1	1	
B)					D)				
	0	0	0			0	0	0	
	0	1	0			0	1	1	
	1	0	0			1	0	1	
	1	1	1			1	1	0	

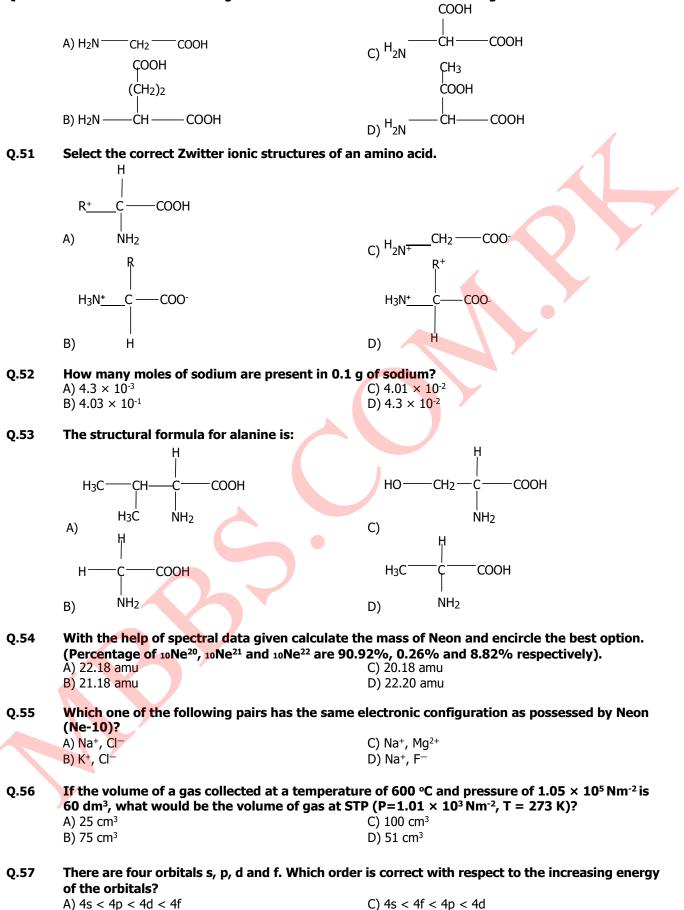
Q.37 A bar of length 'L' pivoted at 'O' is acted by a force 'F' at an angle 'O' with vertical line as shown in figure;

	θ								
	0								
What is the moment of force?									
	A) L sin <del>O</del>	C) LF cos $\Theta$							
	B) L cosΘ	D) LF sinO							
Q.38	The resistance of a piece of wire is $12 \Omega$ . It is bent to form an equilateral triangle. What is the equivalent resistance between any two corners of the triangles?								
	A) 1.3 $\Omega$	C) 4.0 $\Omega$							
	B) 2.0 Ω	D) 2.7 Ω							
Q.39	Magnetic field strength is measu	ire in:							
	A) Wbm <sup>-1</sup>	C) Wbm <sup>2</sup>							
	B) Wbm <sup>-2</sup>	D) Wb							
Q.40	Force on current carrying condu								
	A) IL sinO B) ILB	B) IL D) IB sinθ							
Q.41	In the case when the electrons lose all their kinetic energy (K.E.) in the first collision, the X-ra photon emitted has which of the following set of frequency and wavelength?								
	A) fmax, λmin	C) fmin, λmax							
	B) fmax, λmax	D) fmin, λmin							
Q.42		of ampere then the dimension of magnetic field strength is:							
	A) [MT <sup>2</sup> A <sup>-2</sup> ] B) [MT <sup>2</sup> A <sup>-1</sup> ]	C) [MT <sup>2</sup> L <sup>2</sup> A <sup>-1</sup> ] D) [MT <sup>2</sup> L <sup>-2</sup> A <sup>-2</sup> ]							
	, 2	,							
Q.43	The potential difference between target and cathode of an X-rays tube is 20 kV and current 20 mA. What is the $\lambda_{min}$ of the emitted X-ray?								
	A) 6.19 x 10 <sup>-4</sup> m	C) 6.19 x 10 <sup>-11</sup> m							
	B) 6.19 x 10 <sup>-14</sup> m	D) 6.19 x 10 <sup>-19</sup> m							

#### Page 6 of 20 Q.44 Which of the following spectra is most typical of the output of an X-ray tube?



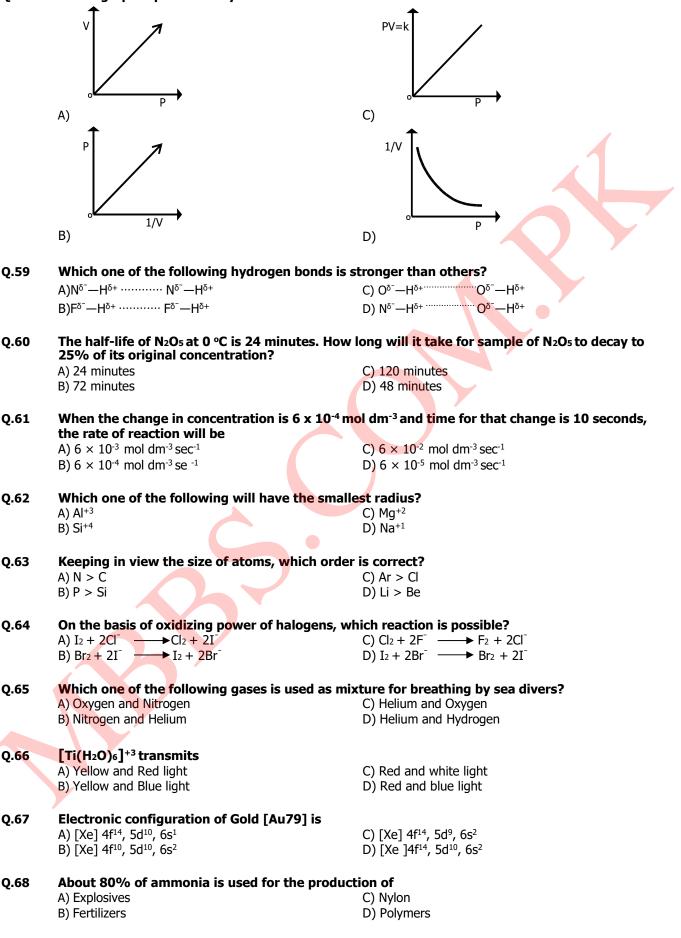
Q.50 Which one of the following structures shows the correct formula of glutamic acid?



D) 4f < 4s < 4d < 4p

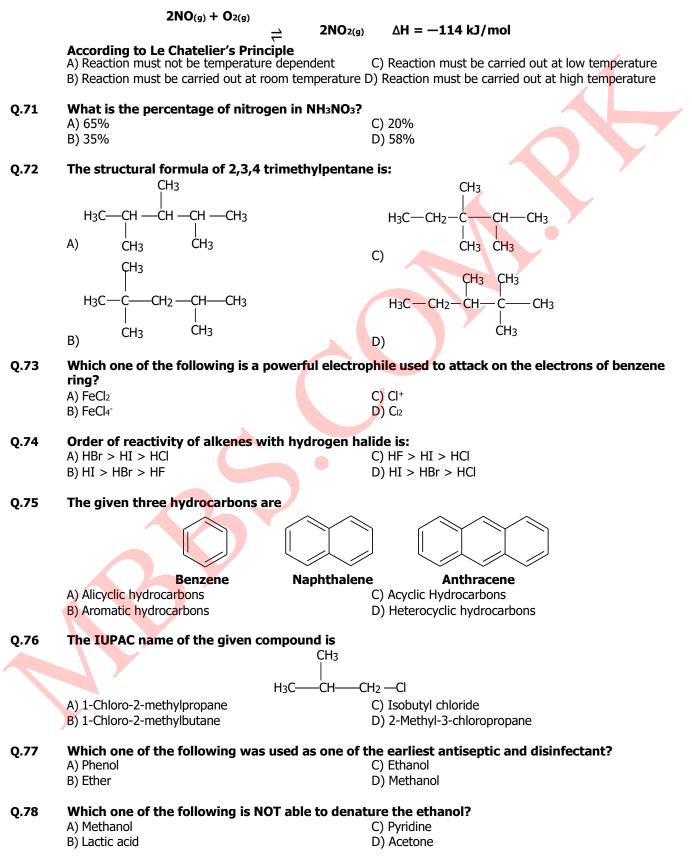
B) 4p < 4s < 4f < 4d

Page 8 of 20 Q.58 Which graph represents Boyle's law?

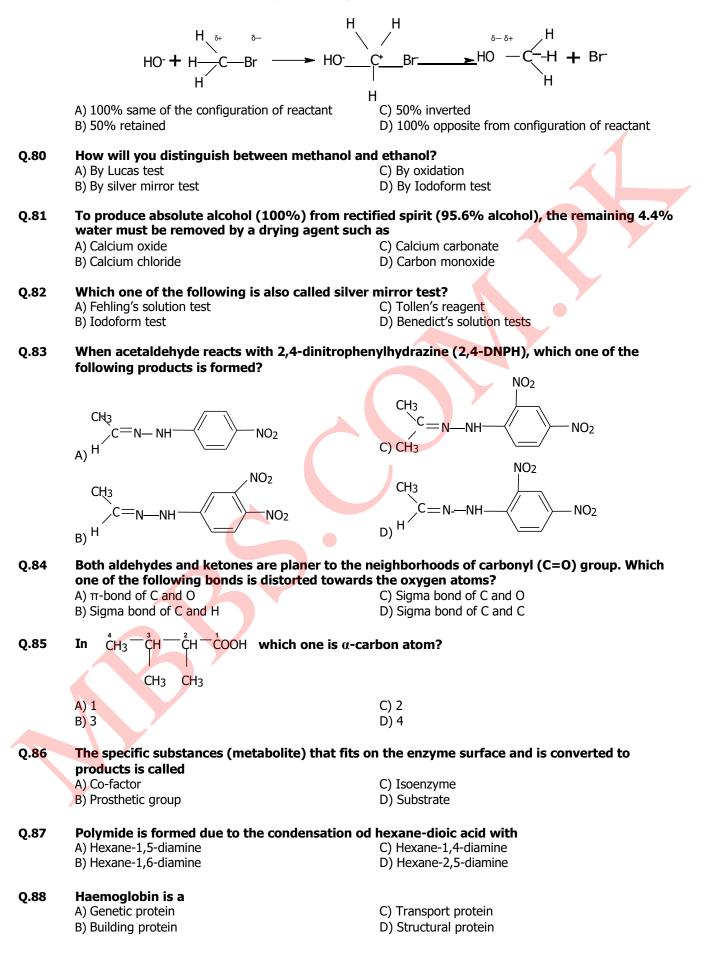


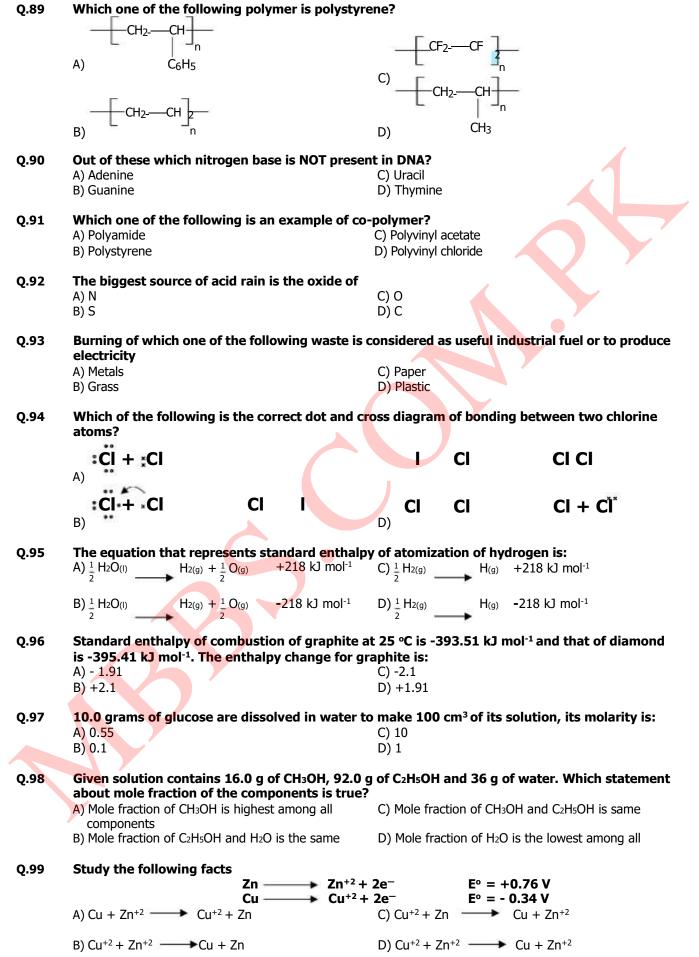
Q.69	Urea is the most widely used nitrogen fertilizer in Pakistan. Its composition Is					
	A) NH2CO	C) N <sub>2</sub> H <sub>4</sub> CO <sub>2</sub>				
	B) N2H5CO2	D) N2H4CO				

## Q.70 During the manufacture of nitric acid, nitric oxide is oxidized to nitrogen dioxide. This reaction is given as:



#### Page 10 of 20 Q.79 In the below reaction, the configuration of product is





## Page 12 of 20

### Q.100 Keeping in mind the electrode potential, which one of the following reactions is feasible?

Quite intervention
 Algent' + Cu → Cu'' + Zn
 C) Fe + CuSO<sub>4</sub> → FeSO<sub>4</sub> + Cu

 A) Zn'' + Cu → Cu'' + Zn
 C) Fe + CuSO<sub>4</sub> → CdSO<sub>4</sub> → CdSO<sub>4</sub> + Cu

 B) Zn + MgSO<sub>4</sub> → ZnSO<sub>4</sub> + Mg
 D) Cd + MgSO<sub>4</sub> → CdSO<sub>4</sub> + Mg

 Q.101
 What is the correct relation between pH and pk?

 A) pH = pKa + log[ 
$$\frac{Acd}{Base}$$
]
 C) pH = pKa - log[  $\frac{Base}{Acd}$ ]

 B) pH = pKa - log[  $\frac{Acd}{Base}$ ]
 D) pH = pKa - log[  $\frac{Acd}{Acd}$ ]

 Q.102
 Which one of the following is the correct presentation for Kw?

 AgCl → Ag' + Cl<sup>-</sup>
 AgCl → Ag' + Cl<sup>-</sup>

 A) Kup =  $\frac{[AgcI]_1}{[Ag^{-1}]_{[C],1}^{-1}}$ 
 C) Kwp =  $\frac{[AgcI]_1}{[AgCI]}$ 

 B) Kwp = [Agc1] [Cl-]
 D) Kwp = [AgC]

 any confession from the thief.

 A) Convince
 D) Agree

 P.101
 ENGLISH

 Q.103
 In spite of all the torture, the police has failed to

 A) Convince
 D) Agree

 Q.104
 It is the duty of a teacher to

 Mary of the houses in Murree have basic
 D) Adjuend

 D) Array
 D) Suggest

 Q.105
 Youngsters who indulge in love affairs are usually
 In worldy manners.

 A) Addied
 D) Adjuend
 D) Adjuend
 D) Adjuend

Q.111But the men ate their supper in good appetites.A)B)C)D)

Q.112A common sense of failure is a mistaken ambition of the boys on the part of his parents.A)B)C)D)

# In each of the following question, four alternative sentences are given. Choose the CORRECT one and fill the Circle corresponding to that letter in the MCQ Response Form.

### Q.113

A) Tourism is burgeoned over the last fifteen years.B) Tourism will burgeoned over the last fifteen years.D) Tourism has burgeoned over the last fifteen years.

### Q.114

- A) His remains were interred in the new cemetery.B) His remains were entered in the new cemetery.
- C) His remains was interred in the new cemetery.D) His remains was entered in the new cemetery.

C) They had died on the same day.

D) They had died of the same day.

C) Empty of concord is the sole of wit.

D) Empty of concord is the howl of wit.

### Q.115

- A) They had died in the same day.
- B) They had died over the same day.

### Q.116

- A) She had turned on the supper steaks when the telephone rang.B) She had turned over the supper steaks when the telephone rang.C) She had turned into the supper steaks when the telephone rang.
- D) She had turned in the supper steaks when the telephone rang.

#### Q.117

A) Empty of concord is the soul of wit.B) Empty of concord is the role of wit.

#### Q.118

A) The cheery trees stand over the woodland ride.B) The cheery trees stand about the woodland ride.

C) The cheery trees stand beside the woodland ride. D) The cheery trees stand on the woodland ride.

### Q.119

- A) He made me to write the sum on the slip and to sign my name in a book.
- B) He made me write the sum on/at the slip and to sign my name in a book.
- C) He made me to write the sum on the slip and sign my name in a book.
- D) He made me to write the sum in a slip and to sign my name in a book.

### Q.120

- A) I am looking forward to secure excellent marks in MCAT.
- B) I am looking forward to securing excellent marks in MCAT.
- C) I am looking forward securing excellent marks in MCAT.
- D) I am looking forward secure excellent marks in MCAT.

### Q.121

- A) The study of population growth indicates one of the greatest paradox of our time.
- B) The study of population growth indicate one of the greatest paradox of our time.
- C) The study of population growth indicates one of the greatest paradoxes of our time.
- D) The study of population growth indicates one of the greatest paradox in our time.

### Q.122

A) In North Africa, he barely escaped assassination at the hand of the governor of the province.
B) In North Africa, he barely escaped from assassination at the hands of the governor of the province.
C) In North Africa, he barely escaped from assassination at the hand of the governor of the province.
D) In North Africa, he barely escaped assassination at the hands of the governor of the province.

# In each of the following question, four alternative meanings of a word are given. You have to select the NEAREST CORRECT MEANING of the given word and fill the appropriate Circle on the MCQ Response Form.

Q.123 EMPATHY

A) Understanding B) Animosity

C) Friendship D) Sympathy

Q.124	FELICITY	
	A) Boredom	C) Happiness
	B) Business	D) Relaxation
Q.125	UNCANNY	
	A) Exact	C) Good
	B) Opposite	D) Strange
Q.126	VIRULENT	
<b>L</b>	A) Progressive	C) Healthy
	B) Harmful	D) Positive
Q.127	RAPT	
	A) Trumpet	C) Rapid
	B) Bewitched	D) Rash
Q.128	PEDAGOGY	
	A) The study of pediatrics	C) The study of cultural heritage
	B) The study of teaching methods	D) The study of pectoral muscle
Q.129	INDICTMENT	
	A) Humiliation	C) Accusation
	B) Offended	D) Invisible
Q.130	MITIGATION	
	A) Alleviation	C) Formidable
	B) Classification	D) Poisonous
Q.131	CONCERTED	
	A) Strenuous	C) Curious
	B) Furious	D) Precious
Q.132	ARCANE	
	A) Mysterious	C) Arid
	B) Furious	D) Clear
	BIO	LOGY
Q.133	In response, $\beta$ -cells prod	duce plasma cells that synthesize antibodies and
Q.133	release in blood plasma and tissue fluid.	· · ·
	A) Cell-Mediated	C) Humoral
	B) Hormonal	C) Humoral D) Phototactic
Q.134	B) Hormonal Passive immunity is used against:	D) Phototactic
Q.134	<ul> <li>B) Hormonal</li> <li>Passive immunity is used against:</li> <li>A) Malaria</li> </ul>	D) Phototactic C) Dengue
Q.134	B) Hormonal Passive immunity is used against:	D) Phototactic
Q.134 Q.135	<ul> <li>B) Hormonal</li> <li>Passive immunity is used against:</li> <li>A) Malaria</li> <li>B) Typhoid</li> <li>B-lymphocytes are named due to their re</li> </ul>	D) Phototactic C) Dengue D) Tetanus lationship with:
-	<ul> <li>B) Hormonal</li> <li>Passive immunity is used against:</li> <li>A) Malaria</li> <li>B) Typhoid</li> <li>B-lymphocytes are named due to their re</li> <li>A) Blood</li> </ul>	D) Phototactic C) Dengue D) Tetanus <b>lationship with:</b> C) Bone Marrow
-	<ul> <li>B) Hormonal</li> <li>Passive immunity is used against:</li> <li>A) Malaria</li> <li>B) Typhoid</li> <li>B-lymphocytes are named due to their re</li> </ul>	D) Phototactic C) Dengue D) Tetanus lationship with:
Q.135	<ul> <li>B) Hormonal</li> <li>Passive immunity is used against:</li> <li>A) Malaria</li> <li>B) Typhoid</li> <li>B-lymphocytes are named due to their re</li> <li>A) Blood</li> </ul>	D) Phototactic C) Dengue D) Tetanus <b>lationship with:</b> C) Bone Marrow D) Bile Duct
-	<ul> <li>B) Hormonal</li> <li>Passive immunity is used against: <ul> <li>A) Malaria</li> <li>B) Typhoid</li> </ul> </li> <li>B-lymphocytes are named due to their reface and the states of Fabricius</li> <li>In light independent stage of photosynth</li> </ul>	D) Phototactic C) Dengue D) Tetanus <b>lationship with:</b> C) Bone Marrow D) Bile Duct
Q.135	<ul> <li>B) Hormonal</li> <li>Passive immunity is used against: <ul> <li>A) Malaria</li> <li>B) Typhoid</li> </ul> </li> <li>B-lymphocytes are named due to their re <ul> <li>A) Blood</li> <li>B) Bursa of Fabricius</li> </ul> </li> <li>In light independent stage of photosynth unstable 6-carbon intermediate.</li> </ul>	D) Phototactic C) Dengue D) Tetanus lationship with: C) Bone Marrow D) Bile Duct esis, the CO <sub>2</sub> combines withto form an
Q.135	<ul> <li>B) Hormonal</li> <li>Passive immunity is used against: <ul> <li>A) Malaria</li> <li>B) Typhoid</li> </ul> </li> <li>B-lymphocytes are named due to their ret</li> <li>A) Blood</li> <li>B) Bursa of Fabricius</li> </ul> <li>In light independent stage of photosynth unstable 6-carbon intermediate. <ul> <li>A) Ribulose bisphosphate</li> <li>B) Hexose sugar</li> </ul> </li>	D) Phototactic C) Dengue D) Tetanus <b>lationship with:</b> C) Bone Marrow D) Bile Duct <b>esis, the CO<sub>2</sub> combines with</b> to form an C) Glycerate-3-phosphate D) Glyceraldehyde-9-phosphate
Q.135 Q.136	<ul> <li>B) Hormonal</li> <li>Passive immunity is used against: <ul> <li>A) Malaria</li> <li>B) Typhoid</li> </ul> </li> <li>B-lymphocytes are named due to their reference (A) Blood</li> <li>B) Bursa of Fabricius</li> </ul> <li>In light independent stage of photosynth unstable 6-carbon intermediate. <ul> <li>A) Ribulose bisphosphate</li> <li>B) Hexose sugar</li> </ul> </li> <li>In glycolysis, glycerate-1,3-bisphosphate</li>	D) Phototactic C) Dengue D) Tetanus <b>lationship with:</b> C) Bone Marrow D) Bile Duct <b>esis, the CO<sub>2</sub> combines with</b> to form an C) Glycerate-3-phosphate

Q.138		to oxaload		•		
	A) ATP		(	C) NAD		
	B) NADP		I	D) FAD		
Q.139	9 In electron transport chain, the electrons from NADH and FADH <sub>2</sub> are passed to;					
-	A) Cytochrome a	-	(	C) Co-enzyme c	-	
	B) Cytochrome a3		[	D) Co-enzyme Q		
	, ,			, , .		
Q.140	Carriers of the respiratory	chain are locat	ted on:			
<b>L</b>	A) Matrix of mitochondria			<sup>-</sup> ) Inner membra	ne of mitochondria	
	B) Outer membrane of mitoch	ondria		D) Cytoplasmic n		
	b) outer membrane of mitoen	onunu	I.			
Q.141	In cystic fibrosis, liposom	es-microsconic	vociclo	are cued whi	ch are coated with	
Q.141	A) Healthy Gene	es-microscopic		C) Protein	ch are coated with.	
	B) Chromosome		l	D) Carbohydrate		
Q.142	The DNA formed by the re	everse transcri				
	A) rDNA			C) cDNA		•
	B) dDNA		[	D) DNA		
Q.143	Bacterial cells take up ree	combinant plas			eated with:	
	A) CaCl <sub>2</sub>		(	C) KCl		
	B) NaCl		[	D) NaOH		
Q.144	Which one of the followir	ng is made up o	of radioa	ctively labelle	d nucleotides?	
	A) Phage DNA		(	C) Recombinant	DNA	
	B) Genomic Library		I	D) Gene Probe		
Q.145	A technique in transgenic	animals in wh	ich desi	ed gene i <mark>s</mark> inse	erted into the eggs of a	animal is
-	called:			-		
	A) Embryonic Stem Cell medi	iated Transfer	(	C) Retro-virus me	ediated gene Transfer	
	B) Microinjection			) Virus vectors	5	
	, ,					
Q.146	Ozone is a layer of atmos	phere extendi	na from		km above earth and	absorbs
•	ultraviolent radiations.					
	A) 10-50		(	C) 5-30		
	B) 50-60			D) 10-80		
	_,		-	-) -0 00		
Q.147	Light rays from the sun a	re absorbed by	∕ CO₂ an	d re-radiate as	radiations.	
<b>L</b>						
	B) Indigo			D) Green		
	b) maige	, i i i i i i i i i i i i i i i i i i i	•			
Q.148	The gases which are prod	uced by hurni	na of foo	sils fuels and a	are responsible for aci	d rain are
Q12 10	A) CFCs	accu by burnin		C) HCl and Oxide		
	B) CO <sub>2</sub> and CO			D) SO <sub>2</sub> and Oxide		
	by cortaine co				er malogen	
Q.149	During successions, the f	irst organisms	that dev	elon on hare r	ock are:	
Q.145	A) Lichens	inst organishis		C) Moss	oek di Ci	
	B) Shrubs			D) Herbs		
	b) Shi ubs		I	) 110105		
Q.150	Trophic level of a herbivo	re in given fee	d-wob i	-		
Q.130	ropine level of a herbivo		a-web is			
		Fox_	Owl —	→ Dqg		
		*				
	<b>7</b>		+			
		Pottla	Dat	D-LL		
		Bettle	Rat ▲	Rabbit		
		•	T			
			Grass			

C)	4
D)	2

A) 1 B) 3

Q.151	L6 of 20 During maternal mitosis, non-disjunction of autosomal chromosome pair results in the formation of an egg having 24 chromosomes in:		
	A) Klinefelter's Syndrome B) Down's Syndrome	C) Turner's Syndrome D) Jacob's Syndrome	
Q.152	Typical symptoms like enlarged breasts and s	mall testis in male are attributed to:	
	A) Down's Syndrome	C) Klinefelter's Syndrome	
	B) Turner's Syndrome	D) Phenylketonuria	
Q.153	Fluid mosaic model of plasma membrane stat layer.	tes that protein molecules float in a fluid	
	A) Galactose	C) Glucose	
	B) Phospholipids	D) Carbohydrate	
Q.154	How many triplets of microtubules are presen A) Ten	nt in centriole? C) Nine	
	B) Eight	D) Seven	
		b) Seven	
Q.155	Turner's syndrome is characterized by having		
	A) Trisomy 21	C) Trisomy 18	
	B) 44 + XXY	D) 44 + XO	
Q.156	Which one of the following cell structure is ir	volved in the synthesis of lipids?	
<b>L</b>	A) Endoplasmic Reticulum	C) Centriole	
	B) Golgi Complex	D) Mitochondria	
0 1 5 7	Managa sebasidas are maior componento of		
Q.157	<b>Monosaccharides are major components of:</b> A) DNA, ATP, Ribulose bisphosphate and Cysteine	C) DNA, NADP, ATP and Ribulose bisphosphate	
	B) DNA, NAD and Insulin	D) DNA, RNA and Myosin	
Q.158	Blood group antigen contains:		
	A) Glycoproteins	C) Glycolipids	
	B) Phospholipids	D) Sphingolipids	
Q.159	Myosin is atype of pro <mark>te</mark> in.		
<b>L</b>	A) Intermediate	C) Globular	
	B) Simple	D) Fibrous	
Q.160	Which one of the following is an example of u	unsaturated fatty acid?	
Q.100	A) Butyric Acid	C) Palmitic Acid	
	B) Oleic Acid	D) Acetic Acid	
Q.161	Number of base pairs in one turn of DNA is:		
	A) 10	C) 34	
	B) 2	D) 54	
Q.162	The lymph vessel of villi is called:		
-	A) Epithelium	C) Adrenals	
	B) Afferent lymph vessel	D) Lacteal	
0 167	Right atrium is separated from right ventricle	a hv:	
Q.163	A) Bicuspid Valve	C) Tricuspid Valve	
	B) Semilunar Valve	D) Interatrial Septum	
Q.164		nuscular extensions of right ventricle known a	
	A) Smooth Muscles	C) Intercostal Muscles	
	B) Papillary Muscles	D) Skeletal Muscles	
Q.165	One complete heart beat consists of one syst	ole and one diastole and lasts for about	
2.200	A) 0.8 sec	C) 0.4 sec	
	B) 0.2 sec	D) 0.5 sec	
Q.166	The heart beat cycle starts when electric imp		
	A) AV Node	C) SA Node D) PQ Node	
	B) SV Node		

Q.167	About 70-85% CO2 in blood is carried:				
<i>б</i> .то,		$()$ Erectly as $(O_2)$			
	A) As carboxylase myoglobin	C) Freely as CO <sub>2</sub>			
	B) With proteins in plasma	D) As bicarbonate			
	The second second black and the second state of the second s				
Q.168	Those nephrons which are present along the l				
	A) Juxtamedullary nephrons	C) Internal nephrons			
	B) Cortical nephrons	D) Outer nephrons			
Q.169	When water is in short supply, increased wate				
	A) Cortical nephrons	C) Juxtamedullary nephrons			
	B) Proximal Convoluted Tubule	D) The tissue of cortex			
Q.170	In nephrons, counter-current multiplier occur	s at:			
	A) Loop of Henle	C) Bowman's Capsule			
	B) Collecting Duct	D) Glomerulus			
	-)				
Q.171	Ascending loop of Henle does not allow outflo	w of:			
-	A) Na <sup>+</sup> ions	C) Cl <sup>-</sup> ions			
	B) K <sup>+</sup> ions	D) Water			
		D) Water			
Q.172	A larger quantity of dilute urine is produced in	diabetes insipidus. This disease is due to the			
<b>Z</b> .=/ =	deficiency of:				
	A) Antidiuretic Hormone	C) Thyroxine			
	B) Aldosterone	D) Cortisol			
Q.173	Water and sodium ions are reabsorbed in:				
	A) Urinary Bladder and Urethra	C) Adrenal Cortex			
	B) Ureter	D) Proximal Convoluted Tubule & Collecting Duct			
Q.174	Which disease is responsible for dementia (m				
	A) Parkinson's Disease	C) Epilepsy			
	B) Alzheimer's Disease	D) Grave's Disease			
Q.175	Neurotransmitter secreted at synapse outside				
	A) Dopamine	C) Androgen			
	B) Polypeptide	D) Acetylcholine			
Q.176	Conduction of action potentials from one mod	e of Ranvier to another in myelinated neurons is			
	through:				
	A) Hyperpolarization	C) Depolarization			
	B) Resting Membrane Potential	D) Saltatory Conduction			
	,	, ,			
Q.177	In the following diagram of action potential in	a neuron, `x' depicts:			
	▲				
	Membrane +50	$\gamma$			
•	Potential 0 + +	<del></del>			
	(mV) -50 - x /				
		$\sim$			
	-100 -				
	Time (I	milliseconds)			
	A) Depolarization	C) Repolarization			
	B) Polarization	D) Hyperpolarization			
	_,	= / · · / Por Poronianon /			
Q.178	In human testis, which structure is responsib	a for carrying sporm from incide the testic?			
Á.T.0					
	A) Seminiferous tubules	C) Seminal Vesicles			
	B) Urinogenital duct	D) Vasa efferentia			
Q.179	In which part of female reproductive system f				
	A) Proximal part of oviduct	C) Placenta			
	B) Uterus	D) Vagina			

Page 18					
Q.180	In females, FSH stimulates the ovary to produ				
	A) Progesterone B) Lactin	C) Oestrogen D) Oxytocin			
	b) Lactin				
Q.181	S1 Syphilis, sexually transmitted disease is caused by:				
	A) HIV	C) Neisseria gonorhoeae			
	B) Treponema pallidum	D) Type '2' virus			
Q.182	In which phase of human female menstrual cy of embryo?	cle, endometrium prepares for the implantation			
	A) Proliferative phase	C) Secretory phase			
	B) Menstrual phase	D) Ovulation phase			
Q.183	The total number of cervical and thoracic verte	abrate in human vertebral column is:			
Q.105	A) 7	C) 14			
	B) 19	D) 33			
Q.184	A sarcomere is the region of a myofibril betwee				
	A) M-lines	C) I-bands			
	B) Z-lines	D) T-tubules			
Q.185	The sarcolemma of muscle fibre folds inwards	and forms a system of tubes which runs through			
	the sarcoplasm called:				
	A) Myofilaments	C) Z-lines			
	B) Sarcoplasmic reticulum	D) Transverse tubules			
0 196	According to sliding filament theory, when mu	cale fibers are stimulated by perveys system			
Q.186	which of the following changes occurs?	scie fibers are stillulated by hervous system,			
	A) I-bands shorten	C) Z-lines move further apart			
	B) H-zone becomes more visible	D) A-bands shorten			
Q.187	If lactic acid build up in thigh muscles, it cause called:	es muscle tiredness and pain. This condition is			
	A) Muscle Fatigue	C) Cramps			
	B) Tetany	D) Oxygen debt in muscles			
Q.188	Thyroxine deficiency in adults' results in a cor				
	A) Cretinism	C) Thyrotoximia			
	B) Hypothyroidism	D) Myxoedema			
Q.189	$\alpha$ -cells of pancreas secrete a hormone known	as:			
<b>4</b>	A) Glucagon	C) Gastrin			
	B) Insulin	D) Rennin			
Q.190	X-linked recessive trait is:	C) Upomenhilia			
	A) Hypophosphatemia	C) Haemophilia D) Diabetes Mellitus			
	B) Vitamin-D resistant rickets	D) Diabetes Mellitus			
Q.191	Human skin colour is a good example of?				
	A) Sex-linked inheritance	C) x-linked inheritance			
	B) Polygenic inheritance	D) y-linked inheritance			
Q.192	From evolutionary point of view, which respire				
	A) Cytochrome a B) Cytochrome b	C) Cytochrome c D) Cytochrome d			
Q.193	Number of pairs of autosomes in humans in:				
-	A) 23	C) 21			
	B) 24	D) 22			
0.404					
Q.194	ABO blood system is an example of:	C) Multiple Alleles			
	A) Polygenes B) Multiple genes	C) Multiple Alleles D) Multiple Mutation			
	b) ridiupic genes				

Q.195	Which molecular structure of enzyme is essen A) Primary Structure B) Quaternary Structure	tial for activity of enzyme? C) Secondary Structure D) Tertiary Structure
Q.196	Which one of the following edible products is A) Soft drinks B) Mango squash	<b>widely pasteurized?</b> C) Milk D) Orange Juice
Q.197	<b>Ribosomes are tiny organisms, which are invo</b> A) Protein B) RNA	Ived in the synthesis of: C) Nucleus D) Nuclosome
Q.198	Which organelle is bounded by two membrane A) Ribosome B) Mitochondria	es? C) Lysosome D) Nucleolus
Q.199	At the beginning of nuclear division, the numb centrioles that migrate to opposite poles are: A) 9 B) 18	er of microtubule triplets in two pairs of C) 108 D) 36
Q.200	<b>The disease in which an individual has extra s</b> A) Down's syndrome B) Tuner's syndrome	ex chromosome (44 + XXY) is known as: C) Klinefelter's syndrome D) Jacob's syndrome
Q.201	<b>Over-secretion of cortical hormone causes a d</b> A) Cushing's Disease B) Diabetes Mellitus	i <b>sease called;</b> C) Hypoglycemia D) Addison's Disease
Q.202	Ejection of milk from mammary glands is under hormones? A) Androgen B) Oxytocin	er the control of which one of the following C) Progesterone D) Estrogen
Q.203	Granulocytes are: A) Monocytes, Eosinophils, Basophils B) Basophils, Macrophages, Neurophils	C) Neurophils, Eosinophils, Basophils D) Monocytes, Macrophages, Basophils
Q.204	Response of body against the transplanted or A) Homeostatic Response B) Behavioral Response	<b>gan is:</b> C) Primary Response D) Cell-mediated Response
Q.205	Some enzymes require helper which is non-pro- called: A) Accelerator B) Cofactor	otein part for its efficient functioning that is C) Prosthetic group D) Apoenzyme
Q.206	<b>Pepsin, protein digesting enzymes, sets best p</b> A) 3.00 B) 4.50	<b>DH:</b> C) 2.00 D) 6.00
Q.207	Which one of the following is an example of co A) Glucose B) Fumerate	<b>ompetitive inhibitor?</b> C) Succinic Acid D) Melonate
Q.208	HIV is classified as: A) Bacteriophage B) Oncovirus	C) Retrovirus D) Icosahedral virus
Q.209	<b>Cyanobacteria are:</b> A) Photoautotrophic bacteria B) Chemosynthetic bacteria	C) Saprotrophic bacteria D) Parasitic bacteria

Page 20 Q.210	0 of 20 During favourable conditions, certain bacteri	a produces
Q.210	A) Ribosomes	C) Mitochondria
	B) Plasmids	D) Spores
Q.211	In rhizopus, zygote forms temporary, dorma A) Zygospore	nt, thick-walled resistant structure called: C) Sporangia
	B) Spore	D) Hydra
Q.212	is a triploblastic organism.	
	A) Jelly Fish	C) Tapeworm
	B) Sea Anemone	D) Corals
Q.213	In arthropods, the body cavity is in the form	of:
<b>L</b>	A) Coelem	C) Psedocoelem
	B) Haemocoel	D) Enteron
Q.214	is a good example of polymorp	
	A) Hydra	C) Obelia
	B) Starfish	D) Equplectella
Q.215	Name common gut roundworm parasite of h	uman and pigs.
<b>L</b>	A) Aascaris lumberocoides	C) Pheretima posthuma
	B) Lumbericus terresaris	D) Hirudo Medicinalis
0.216	is also called liver fluire	
Q.216	is also called liver fluke. A) Dugesia	C) Fasciola
	B) Taenia	D) Coral
Q.217	Oxyntic cells in stomach produces:	
	A) Pepsin	C) Gastrin
	B) Pepsinogen	D) HCI
Q.218	The hormone which inhibits the secretion of	pancreatic juice is:
<b>L</b>	A) Secretin	C) Thyroxine
	B) Gastrin	D) Parathormone
0.010	Town in a set of the transit burge	
Q.219	Trypsinogen is activated to trypsin by: A) HCl	C) Mucus
	B) Enterokinase	D) Gastrin
	b) Enterokindse	
Q.220	The emulsification of fats is the role of:	
	A) Saliva	C) Gastrin
	B) Pancreatic juice	D) Bile
	(University of Health S	ciences Labore)

(Copyright Protected University of Health Sciences)

# **MBBS.COM.PK**

UHS MDCAT PAST PAPERS BOOK Hard Copy Available Now.



Page 1 of 19

# **University of Health Sciences, Lahore**



Max. Marks: 1100

A | B | C | D

O

## Total MCQs: 220

# ENTRANCE TEST - 2016 For F.Sc. and Non-F.Sc. Students <u>Time Allowed: 150 minutes</u>

## Instructions:

Blue.

- i. Read the instructions on the MCQs Response Form carefully.
- ii. Choose the **Single Best Answer** for each question.
- iii. Candidates are strictly prohibited from giving any identification mark except Roll No. & Signature in the specified columns only.

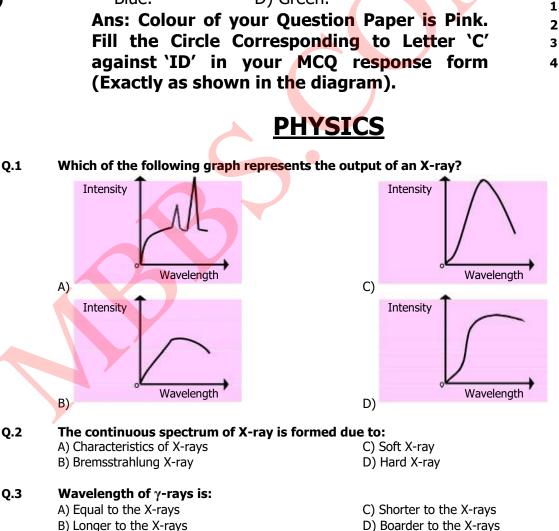
D) Green.

# **COMPULSORY QUESTION FOR IDENTIFICATION**

ID

Q-ID. What is the color of your Question Paper? A) White.

B)



Q.4	Thorium is transformed after the trans A) Bismuth	C) Polonium
	B) Protactinium	D) Palladium
Q.5	Emission of $\gamma$ -rays from radioactive ele	ement results into:
<b>L</b>	A) Bismuth	C) Polonium
	B) Protactinium	D) Palladium
Q.6	The relation between decay constant "	$\lambda'$ and half-life `T1/2' of radioactive substance is:
-	1	C) $\lambda = T_{\frac{1}{2}}$
	A) $\lambda = \frac{1}{T^{\frac{1}{2}}}$	0.693
	B) $\lambda = 0.693 T_{\frac{1}{2}}$	D) $\lambda = \frac{1}{T_{c}}$
		1/2
Q.7	Radioisotope which is used to combat	
	A) Iodine-131 B) Phosphorous-32	C) Strontium-90
	B) Phosphorous-32	D) Cobalt-60
Q.8	Sodium-24 is used for:	
	A) Sterilization B) Study of circulation of blood	C) Skin Cancer D) Thyroid Cancer
	B) Study of circulation of blood	D) Thyrold Cancer
Q.9	Energy radiation absorbed at the rate	
	A) 1 Rad	C) 1 Yellow
	B) 1 Sievert	D) 1 Gray
Q.10	The time period `T' of a simple pendulur `g' using unit dimension. The correct e	m depends on its length `l' and acceleration due to grav quation for time period is: +
	A) T = k J $\frac{3}{l}$ where 'k' is constant	C) T = k $J_g^{-}$ where 'k' is constant
	B) T = $\frac{1}{k} \frac{9}{Jl}$ where 'k' is constant	D) T = $\frac{1}{k}$ where 'k' is constant
Q.11	The unit for electric charge is Coulomb	and one Coulomb in terms of base unit is equivalent t
	A) Am	C) As
	B) Js <sup>-1</sup>	D) C
Q.12	A man in elevator ascending with an a	cceleration will conclude that his weight is:
-	A) Increased	C) Reduced to zero
	B) Decreased	D) Remain Constant
Q.13	If we double the moment arm the valu	le of torque becomes:
Q.13	A) Ha	alf C) Two-times
Q.13	A) Ha	le of torque becomes:
Q.13 Q.14	A) Ha B) Th When fluid is incompressible, the quar	alf C) Two-times nree-times D) Four-times
-	A) Ha B) Th When fluid is incompressible, the quar A) Mass	alf C) Two-times ree-times D) Four-times ntity is constant is: C) Pressure
-	A) Ha B) Th When fluid is incompressible, the quar	alf C) Two-times nree-times D) Four-times
-	A) Ha B) Th When fluid is incompressible, the quar A) Mass B) Density The minimum distance from the eye at	alf C) Two-times nree-times D) Four-times ntity is constant is: C) Pressure D) Force t which an object appears to be distant is:
Q.14	A) Ha B) Th When fluid is incompressible, the quar A) Mass B) Density The minimum distance from the eye at A) 25 cm	alf C) Two-times nree-times D) Four-times ntity is constant is: C) Pressure D) Force t which an object appears to be distant is: C) 35 cm
Q.14	A) Ha B) Th When fluid is incompressible, the quar A) Mass B) Density The minimum distance from the eye at	alf C) Two-times nree-times D) Four-times ntity is constant is: C) Pressure D) Force t which an object appears to be distant is:
Q.14 Q.15	<ul> <li>A) Ha</li> <li>B) Th</li> <li>When fluid is incompressible, the quart</li> <li>A) Mass</li> <li>B) Density</li> <li>The minimum distance from the eye at</li> <li>A) 25 cm</li> <li>B) 22 cm</li> <li>Using the relation for the magnifying p will be:</li> </ul>	alf C) Two-times nree-times D) Four-times ntity is constant is: C) Pressure D) Force t which an object appears to be distant is: C) 35 cm D) 20 cm power L₀, M = 1 + d/f, if f = 5 cm and d = 25 cm then M
Q.14 Q.15	<ul> <li>A) Ha</li> <li>B) Th</li> <li>When fluid is incompressible, the quart</li> <li>A) Mass</li> <li>B) Density</li> <li>The minimum distance from the eye at</li> <li>A) 25 cm</li> <li>B) 22 cm</li> <li>Using the relation for the magnifying p will be:</li> <li>A) 5</li> </ul>	<pre>ue of torque becomes: alf C) Two-times mree-times D) Four-times mtity is constant is: C) Pressure D) Force t which an object appears to be distant is: C) 35 cm D) 20 cm power L₀, M = 1 + d/f, if f = 5 cm and d = 25 cm then M C) 6</pre>
Q.14	<ul> <li>A) Ha</li> <li>B) Th</li> <li>When fluid is incompressible, the quart</li> <li>A) Mass</li> <li>B) Density</li> <li>The minimum distance from the eye at</li> <li>A) 25 cm</li> <li>B) 22 cm</li> <li>Using the relation for the magnifying p will be:</li> </ul>	alf C) Two-times nree-times D) Four-times ntity is constant is: C) Pressure D) Force t which an object appears to be distant is: C) 35 cm D) 20 cm power L₀, M = 1 + d/f, if f = 5 cm and d = 25 cm then N
Q.14 Q.15	<ul> <li>A) Ha</li> <li>B) Th</li> <li>When fluid is incompressible, the quart</li> <li>A) Mass</li> <li>B) Density</li> <li>The minimum distance from the eye at</li> <li>A) 25 cm</li> <li>B) 22 cm</li> <li>Using the relation for the magnifying p will be:</li> <li>A) 5</li> </ul>	<pre>interview of torque becomes: alf C) Two-times interview D) Four-times intity is constant is: C) Pressure D) Force it which an object appears to be distant is: C) 35 cm D) 20 cm interview of the constant is: C) 35 cm D) 20 cm interview of the constant is: C) 6 D) 8</pre>

Page 3 of 19

The red shift measurement of Doppler effect of galaxies indicate that the universe is: Q.18 A) Expanding C) Stationary B) Contracting D) Oscillating Frequency audible range to human hearing lies in the range: 0.19 C) 20-20000 Hz A) 2-2000 kHz B) 15-50000 kHz D) 20-20000 kHz Tuning a radio is a best example of: Q.20 A) Natural resonance C) Free resonance B) Mechanical resonance D) Electrical resonance Q.21 The ratio of applied stress to the volumetric strain is called: C) Tensile modulus A) Bulk Modulus B) Shear Modulus D) Young's Modulus Q.22 The wire made of copper belong to which specific kind of material: A) Ductile material C) Brittle material B) Tough material D) Deformed material The relation R Q.23 NA = 1.38 x 10 -3% in a ras law is known as: C) Newton's constant A) Avogadro's constant B) Charles constant D) Boltzmann's constant The relation 'PV = nRT' shows which law of physics: Q.24 C) Newton's Constant A) Charles Law B) Avogadro's Law D) Ideal Gas Law Q.25 The rapid escape of air from a burst tyre is an example of: A) Adiabatic processes C) Cooling process B) Isothermal process D) First law of thermodynamics Q.26 Which relation exactly described the isothermal process? A) Q = WC) Q =  $\Delta U$ B) W =  $\Delta U$ D)  $Q = \Delta U + W$ Q.27 If a turbine is working as a heat engine and takes that from hot body (427 °C) and exhausts into a body at 77 °C then what is the possible efficiency? A) 50% C) 90% B) 70% D) 95% Q.28 Which one of the following is the Boolean expression of NAND gate? A) X = A.BC) X = ⊡B. D)  $X = A^{-} + B^{-}$ B) X = A + BQ.29 Which one of the following is the truth table of NAND gate? C) A) В В A Y A 0 0 1 0 1 1 0 1 0 1 1 0 1 0 0 1 1 0 B) Y D) В A A B 0 0 1 0 0 0 0 1 1 1 1 1 0 1 1 0 1 1 Q.30 If the length, width and separation between the plates of a parallel plate capacitor is doubled then its capacitance becomes:

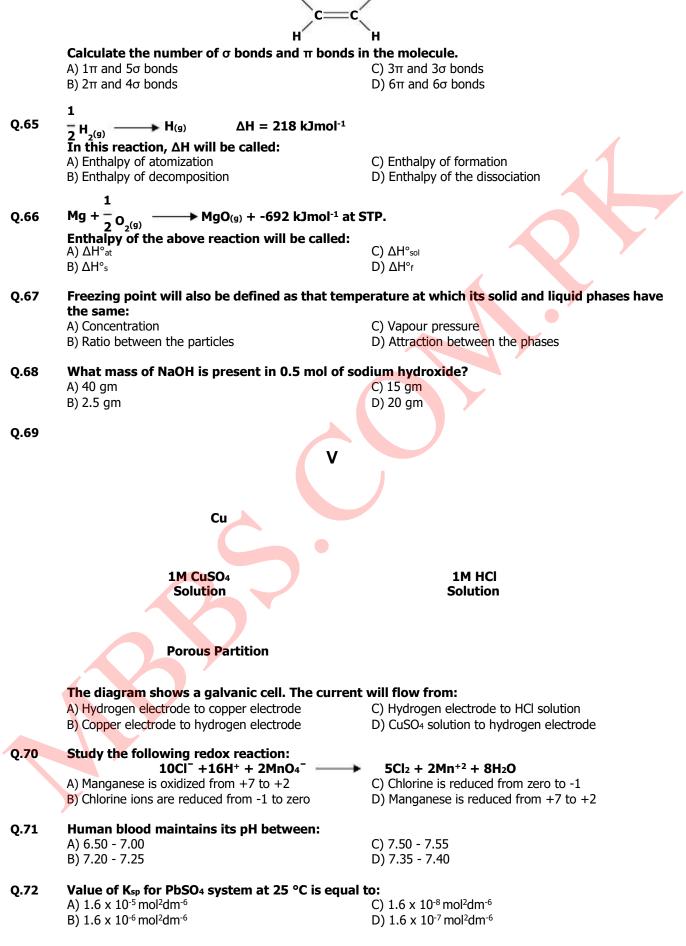
- A) Double
- B) Half

C) Four-times D) Eight-times

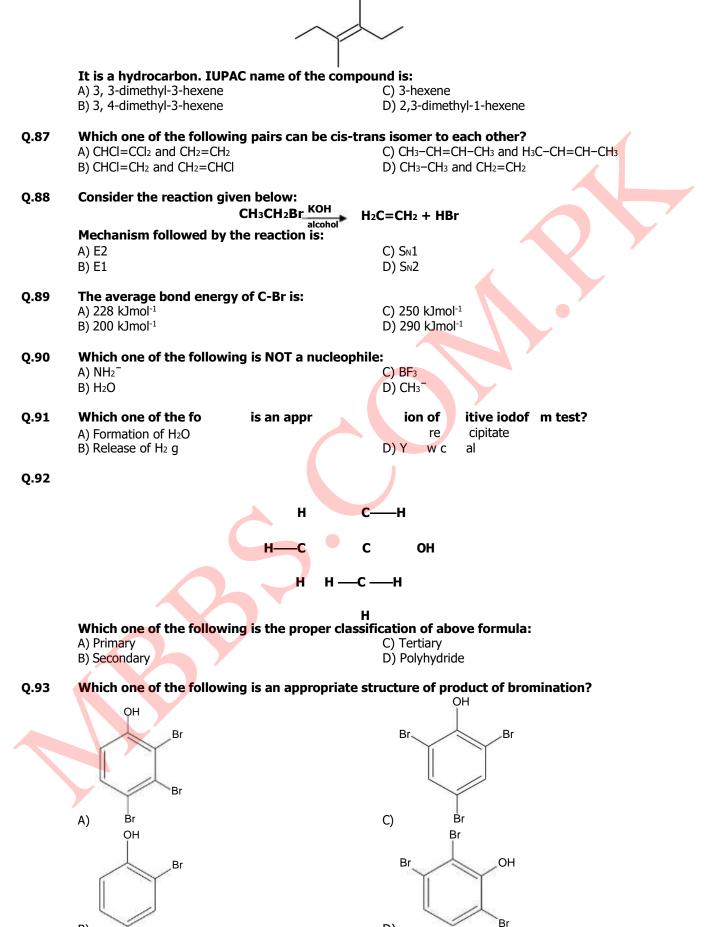
Q.31	Resistance between two opposite faces of square 1 μm if resistivity of material is 10 <sup>-6</sup> Ω will be:			
	Α) 1000 Ω	C) 1 Ω		
	Β) 100 Ω	D) 10 Ω		
Q.32	Total resistance between 'A' and 'B' in the giv 5 $\Omega$	en circuit is:		
	5 Ω <mark></mark>	5Ω < 5Ω <		
	В			
	•			
	Α) 5.6 Ω Β) 3.33 Ω	C) 0.33 Ω D) 6.6 Ω		
Q.33	making an angle of 45° with the magnetic fie F	low if we change the direction of conductor by Id then the force becomes: F		
	A) $\frac{1}{2}$	$C)_{\sqrt{2}}$		
	B) 2F	D) √2 F		
Q.34	-	acting on current carrying conductor and $\theta = 90^{\circ}$		
	then magnetic force becomes: A) Half	C) Eight-times		
	B) Double	D) Four-times		
Q.35	field and conductor is:	or will be maximum if the angle between magneti		
	A) 0° B) 30°	C) 90° D) 60°		
Q.36	The shadow of the bones in X-rays photographic film appears lighter than the surrounding flesh due to:			
	A) Bones reflect greater amount of X-rays B) Bones absorb less amount of X-rays	C) Bones absorb greater amount of X-rays D) Bones totally reflect X-rays		
Q.37	The atom is excited to an energy level E <sub>i</sub> from of the radiations emitted is:	its ground state energy level $E_0$ , the wavelength		
	A) $(E_0 - E_i)$ hc	hc		
		C) (E <sub>i</sub> - E <sub>o</sub> )		
	B) <u>(Ei - Eo)</u>	D) <u>Ei <sup>—</sup> <sup>E</sup>o</u> hc hc		
	hc	hc hc		
Q.38	Which one of the following gas is the lasing o			
	A) Hydrogen B) Helium	C) Neon D) Carbon dioxide		
Q.39	The target of X-ray tube is made up of which			
Q.39	A) Iron	C) Brass		
	B) Nickel	D) Tungsten		
Q.40	The X-rays consists of:			
	A) High energy proton	C) High energy γ-rays		
	B) High energy electrons	D) High energy photons		
Q.41	In Bernoulli's equation the term $\frac{1}{2} \rho v_{2i}$ s called	:		
	A) K.E. per unit volume $2 P_2 i^2$	C) K.E. per unit area		
	/ F	-, ······ p···· ····· ··· ··· ···		

		Page 5 of 19	9
Q.42	Potential energy per unit volume is given by: A) mgh	C) gh	
	B) <del></del>	D) pgh	
Q.43	If general equation for destructive interference	ce's is given by the relation,	
	Optic path difference	$ce = (m + \frac{1}{r}) \lambda$	
	where `m' is an integer, then first dark fringe $\gamma$		
	A) $\frac{2}{3}$	C) 0	
	B) $\frac{1}{2}$	D) 1	
Q.44	For bright fringe formation, the path difference	e is:	
	A) $\left(n + \frac{1}{2}\right)_{\lambda}$ where n = 0, 1, 2,	C) $(2n + 1)\frac{\lambda}{2}$ where n = 0, 1, 2,	
	B) $n\lambda$ where $n = 0, 1, 2,$	D) $\binom{n+1}{2} \lambda^2$ where n = 0, 1, 2,	
	CHEMIS		
Q.45	Which one of the following is structural formu	la of proline?	
	$H_2C$ $H_2$		
	H <sub>2</sub> C CH—COOH	Н₃С сн—соон	
	A) NH	C) NH <sub>2</sub>	
	н₃с—нс — сн —соон	сн₂ —соон	
	B) CH <sub>3</sub> NH <sub>2</sub>	D) <sup>NH</sup> 2	
Q.46	In the formation of Zwitter ion which one of t		
	A) COOH B) NH <sub>2</sub>	C) CH2COO <sup>-</sup> D) OH <sup>-</sup>	
Q.47	HOOC –CH <sub>2</sub> – CH <sub>2</sub>	—сн—соон	
		NH <sub>2</sub>	
	What is the name of above given structural for A) Aspartic Acid	ormula? C) Adipic Acid	
	B) Asparagine	D) Glutamic Acid	
Q.48	Which one of the following is simplest amino		
	A) Lysine B) Leucine	C) Alanine D) Glycine	
0.40	Which one of the following polymer is called		
Q.49	A) Polyester	C) Polyamide	
	B) Polyvinyl chloride	D) Polyvinyl acetate	
Q.50	Which one of the following is an exact comport A) Carbon and Hydrogen	sition of a carbohydrates? C) Carbon, Hydrogen and Oxygen	
	B) Carbon and Oxygen	D) Hydrogen and Oxygen	
Q.51	Which one of the following nitrogen base is N	IOT present in DNA?	
-	A) Adenine B) Guanine	C) Uracil D) Cytosine	
	b) Guainine		

Page 6		
Q.52	In the woody parts of trees, the %age of cellu A) 50% B) 10%	llose is: C) 30% D) 100%
Q.53		
	$O + () \rightarrow ()$	
	Choose the right molecule.	
	A) CH₃ B) CO	C) H <sub>2</sub> O D) NH <sub>3</sub>
Q.54		
	<b>Indicate the name of above given structure.</b> A) Nylon 6,6 B) Adipic Acid	C) PVA D) Polyester
Q.55	In laboratory experiment an unknown compor colour became intense blue. What could be the A) Cellulose B) Raffinose	und was added in test tube containing iodine, the e unknown compound? C) Ribose D) Starch
Q.56	Ozone concentration is measured in: A) Debye units B) Dupont units	C) Debacle units D) Dobson units
Q.57	The gas which is mainly produced in landfills f A) CH <sub>4</sub> B) CO <sub>2</sub>	rom the waste is: C) SO2 D) Cl2
Q.58	The substance for the separation of isotopes is A) Neutral state B) Free state	s firstly converted into the: C) Vapour state D) Charged state
Q.59 T	The number of moles of CO <sub>2</sub> which contain 8.00 g A) 0.75 B) 1.50	<b>gm of oxygen is:</b> C) 0.25 D) 1.00
Q.60	London dispersion forces are the only forces p A) Molecules of H <sub>2</sub> O in liquid state B) Molecules of HCl gas	resent among the: C) Atoms of helium in gaseous state at high temperature D) Molecules of solid chlorine
Q.61	<b>Electrical conductivity of graphite is greater in</b> A) <b>Iso</b> morphism B) Cleavage plane	<b>one direction that in other due to:</b> C) Anisotropy D) Symmetry
Q.62	Number of neutrons in <sup>6</sup> 6 Zn will be:30 A) 30 B) 35	C) 38 D) 36
Q.63	The maximum number of electrons in electron formula:	
	A) 2l + 1 B) 2n <sup>2</sup> + 2	C) 2n <sup>2</sup> D) 2n <sup>2</sup> + 1

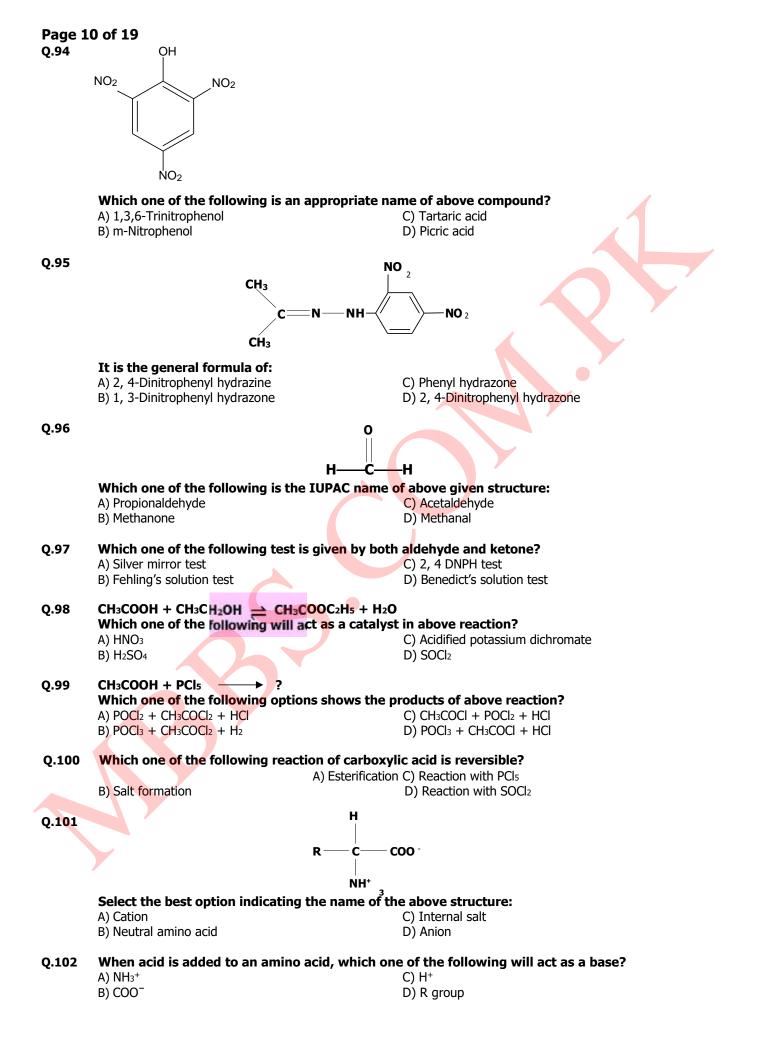


Page 8	of 19	
Q.73	2A + B $\longrightarrow$ Product If the reactant 'B' is in excess, the order of reac Rate = $k[A]^2[B]$ is:	tion with respect to 'A' in given rate law,
	A) 2 <sup>nd</sup> order reaction B) 1 <sup>st</sup> order reaction	C) Pseudo 1 <sup>st</sup> order reaction D) 3 <sup>rd</sup> order reaction
Q.74	<b>The rate constant `k' is 0.693 min<sup>-1</sup>. The half-lif</b> A) 1 min B) 2 min	e for the 1 <sup>st</sup> order reaction will be: C) 0.693 min D) 4 min
Q.75	<b>Melting points of group II-A elements are high</b> A) Atoms of II-A elements have smaller size B) II-A elements are more reactive	er than those of group I-A because: C) Atoms of II-A elements provide two binding electrons D) I-A elements have smaller atomic radius
Q.76	<b>The ionic radius of fluoride ion is:</b> A) 72 pm B) 95 pm	C) 136 pm D) 157 pm
Q.77	2NaOH <sub>(aq)</sub> + Cl <sub>2(g)</sub> → NaCl + NaClO + H <sub>2</sub> O A) 500 °C B) 200 °C	<b>proceed at:</b> C) -10 °C D) 15 °C
Q.78	Which halogen molecule 'X <sub>2</sub> ' has lowest dissoci A) Cl <sub>2</sub> B) Br <sub>2</sub>	ation energy? C) I2 D) F2
Q.79	The anomalous electronic configuration shown elements is due to: A) Colour of ions of these metals B) Variable oxidation states of metals	by chromium and copper among 3-d series of C) Stability associated with this configuration D) Complex formation tendency of metals
Q.80	Which element of 3d series of periodic table sh A) Copper	C) Zinc
Q.81	B) Cobalt The %age of nitrogen in ammonium nitrate is:	D) Nickel
	A) 46% B) 82%	C) 33% D) 13%
Q.82	Which one of the following is anhydride of sulp A) Sulphur (II) oxide B) Sulphur (VI) oxide	<b>huric acid?</b> C) Iron pyrite D) Sulphur (VI) oxide
Q.83	During contact process of H2SO4 synthesis, the	following reaction occurs:
	$2SO_{2(g)} + O_{2(g)} \rightleftharpoons 2SO_{3(g)}$ Which step is used to increase the world of SO <sub>3</sub> ?	$\Delta H = -96 \text{ kJmol}^{-1}$
	<ul> <li>A) Temperature is raised to very high degree</li> <li>B) SO<sub>3</sub> formed is removed very quickly</li> </ul>	<ul><li>C) Both temperature and pressure are kept very low</li><li>D) An excess of air is used to drive the equilibrium to the right side</li></ul>
Q.84	Synthesis of ammonia by Haber's process is a r increase the yield of ammonia in the following Name $2 \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} = 2 \frac{1}{2} 1$	
	A) Pressure should be decreased B) Ammonia in the following $N_{2(g)} + 3 \frac{H_{2(g)}}{2} \stackrel{\sim}{\sim} 2NH$ $\stackrel{\sim}{\rightarrow} 3(g)$	$\Delta H = -92 \text{ kJmol}^{-1}$
Q.85	<ul> <li>A) Pressure should be decreased</li> <li>B) Ammonia should remain in reaction mixture</li> <li>Which one of the following reactions shows con</li> </ul>	nbustion of a saturated hydrocarbon?
	A) $C_{24}^{H} + 3O_{2}^{2} \longrightarrow 2CO_{2}^{2} + 2H_{2}^{O}$	C) CH $_{4}^{4} + \frac{1}{2}O_{400^{\circ}C, 200 \text{ atm}}^{Cu}$ CH OH
	B) CH <sub>4</sub> + 2O <sub>2</sub> → CO <sub>2</sub> + 2H <sub>2</sub> O	D) $C_2H_2 + \frac{5}{2}O_2 \longrightarrow 2CO_2 + H_2O$



D)

B)



# **ENGLISH**

Q.103	His theories have beenby recent research.
	A) Pronounced C) Dammed
	B) Rearmed D) Debunked
Q.104	International rulesthe number of foreign entrants.
	A) Hoodwink C) Fabricate
	B) Stipulate D) Traverse
Q.105	The assassination of the presidentthe country into war.
Q1200	A) Articulated C) Hobbled
	B) Boomed D) Precipitated
Q.106	She might be forgiven forbeneath the pressure.
	A) Undertaking C) Buckling
	B) Extricating D) Resounding
$\square$	SPOT THE ERROR: In the following sentences, some segments of each sentence are
~	underlined. Your task is to identify that underlined segment of the sentence, which
	contains the mistake that needs to be corrected. Fill the Circle corresponding to that
	letter under the segment in the MCQ Response From.
Q.107	It <u>showed</u> that he was a man <u>capable of looking beneath</u> the surface of things, a man not
	A) B) C)
	dependent in paper manifestations.
	D)
Q.108	When he was a child, every time he were naughty, his foster-mother used to threaten to send him
	A) B) C) D)
	<u>to</u> Timbuktu.
0 100	I was faced with alternatively of either evicting the backs or else leaving them in cole, undisturbed
Q.109	I was faced <u>with alternatively of either</u> evicting the books <u>or else</u> leaving them in sole, undisturbed A) B) C)
	tenancy and <u>taking rooms</u> elsewhere for myself.
	D)
Q.110	I remember <u>going to</u> the British museum one day to <u>read for</u> the treatment for some slight ailment A) B)
	of which I had a touch-hay fever, I fancy it was.
	C) D)
Q.111	The number of people in the world are rapidly increasing rather like a gigantic snowball which not
	A) B) only <u>gets bigger</u> as it rolls <u>but goes faster</u> as well.
	C) D)
Q.112	It has been calculated that unless the growth is checked, there will only be enough room on the
	A) B) C)
	earth for people to <u>stand by</u> .
	D)
	In each of the following question, four alternative sentences are given.
	Choose the CORRECT one and fill the Circle corresponding to that letter in the
	MCQ Response Form.

Q.113

- A) Inside a carton was a push-button unit fastened with a small wooden box.
- B) Inside a carton was a push-button unit fastened by a small wooden box.C) Inside a carton was a push-button unit fastened to a small wooden box.
- D) Inside a carton was a push-button unit fastened along a small wooden box.

### Page 12 of 19 Q.114

- A) They both looked to one another, startled by all they had just finished saying.
- B) They both looked to each another, startled by all they had just finish saying.
- C) They both looked to each another, startle by all they had just finish saying.
- D) They both looked to each another, startled by all they had just finished saying.

### Q.115

- A) The lovely sentiments we go through repeating!
- B) The lovely sentiments we go about repeating!
- C) The lovely sentiments we go in repeating!
- D) The lovely sentiments we go for repeating!

### Q.116

A) With the bright light, still in her eyes, she moved quick out of the door.B) With the bright light, still in her eyes, she moved quick out to the door.C) With the bright light, still in her eyes, she moved quickly out to the door.D) With the bright light, still in her eyes, she moved quickly out of the door.

### Q.117

- A) In a short while quiet a large crowd had been collected.
- B) In a short while quite a large crowd had collected.
- C) In a short while quite large crowd had collected.
- D) In a short while quite the large crowd had been collecting.

### Q.118

- A) She watched all the important matches in the Brookfield ground.
- B) She watched all the important matches on the Brookfield ground.
- C) She watched all the important matches from the Brookfield ground.
- D) She watched all the important matches within the Brookfield ground.

### Q.119

- A) Something had happened, something whose ultimate significance had yet to be reckon.
- B) Something had happened, something whose ultimate significance had yet was reckon.
- C) Something had happened, something whose ultimate significance had yet to be reckoned.
- D) Something had happened, something whose ultimate significance had yet reckoned.

### Q.120

- A) His faculties were all unimpairment, and he had no personal worries of any kind.
- B) His faculties were all unimparing, and he had no personal worries of any kind.
- C) His faculties were all unimpaired, and he had no personal worry of any kind.
- D) His faculties were all unimpaired, and he had no personal worries of any kind.

### Q.121

- A) It was hard to him to speak out loud, but he managed to murmur something.
- B) It was hard on him to speak out loud, but he managed to murmur something.
- C) It was hard for him to speak out loud, but he managed to murmur something.
- D) It was hard upon him to speak out loud, but he managed to murmur something.

### Q.122

- A) There was a little money saved up beside.
- B) There was little money saved in besides.
- C) There was little money saved up beside.
- D) There was a little money saved up besides.

# In each of the following question, four alternative meanings of a word are given. You have to select the NEAREST CORRECT MEANING of the given word and fill the appropriate Circle on the MCQ Response Form.

### Q.123 STALWART

A) Loyal B) Lazy

### Q.124 CHIVALRY

A) Coward B) Non-cooperative C) Lacking strength D) High

C) Imitating D) Gallant

		Page 13 of 19
Q.125	RAKISH A) Curved B) Traditional	C) Formal D) Dashing
Q.126	<b>PRODIGIOUS</b> A) Huge B) Trivial	C) Little D) Square
Q.127	IMPROVISE A) Colophon B) Concoct	C) Divert D) Respite
Q.128	<b>PARADOX</b> A) Anomaly B) Prototype	C) Steward D) Fashion
Q.129	<b>MANIFESTATION</b> A) Mode B) Token	C) Quirk D) Bulwark
Q.130	<b>RECONNOITRE</b> A) Patrol B) Arcane	C) Exhort D) Falter
Q.131	<b>SOJOURN</b> A) Visit B) Belch	C) Furry D) Inking
Q.132	MUSE A) Immaculate B) Chew over	C) Sigh over D) Vagary
Q.133	Random, uncontrolled activity of some cells	<b><u>S</u></b> in the brain leading to chaotic activity in both of to see and hear different strange things. C) Alzheimer's Disease D) Huntington's Disease
Q.134	Part of hind brain responsible for the balar A) Medulla B) Cerebellum	<b>nce and equilibrium of body is called:</b> C) Pons D) Thalamus
Q.135	<b>Events of menustral cycle are regulated by</b> A) Ethylene B) Gonadotrophins	r <b>the:</b> C) Auxins D) Gibberellins
Q.136	Decrease of FSH and increase of estrogen ( A) Somatotropin B) Luteinizing Hormone	cause pituitary gland to secrete: C) Testosterone D) Spermatogonium
Q.137	<b>Transmission of Neisseria gonorrhea is bes</b> A) Oro-fecal Route B) Unsafe Sex	<b>st described by which one of the following?</b> C) Vector Borne D) Droplet Infection
Q.138	Syphilis is caused by: A) Spirochete B) Nostoc	C) Water blooms D) Cyanobacteria
Q.139	AIDS is caused by: A) Bacteria B) Virus	C) Fungi D) Alga

Q.140	4 of 19 Brain is protected and enclosed in: A) Lumbar vertebrae	C) Vertebral column
	B) Coccyx	D) Cranium
Q.141	Longest bone in the human skeleton is:	
	A) Ulna B) Fibula	C) Tibia D) Femur
Q.142	Hips and shoulder joints are examples of:	
	A) Hinge Joints B) Ball and Socket Joints	C) Synovial Joints D) Cartilaginous Joints
Q.143	In pelvic region of human bosy, sacrum is fo	
	A) 4 Vertebrae B) 5 Vertebrae	C) 6 Vertebrae D) 3 Vertebrae
Q.144	Each muscle fibre is surrounded by a modifie	
	A) Sarcolemma B) Sarcomere	C) Myosin Filament D) Myofilament
Q.145		lin and causes increase in blood glucose level.
	A) Glucagon B) Nor-epinephrine	C) Calcitonin D) Thyroxine
Q.146	Beta cells of islets of Langerhans produce A) Glucagon B) Insulin	hormone. C) Pancreatic Juice D) Parathormone
Q.147	The central portion of adrenal gland (Adrena	
	A) Aldosterone B) Epinephrine	C) Androgen D) Corticosterone
Q.148	hormones are called fight and fl	ight hormones as they prepare an organism to fa
	stressful situation. A) Adrenaline, Aldosterone	C) Cortisone, Oxytocin
	B) Epinephrine, Nor-epinephrine	D) Thyroxine, Nor-epinephrine
Q.149	B-cells release antibodies in blood plasma, tis is called:	sue fluid and lymph. This kind of immune respo
	A) Cell Mediated Response	C) Active Response
	B) Humoral Response	D) Compound Response
Q.150		e passed from one individual to another is calle
Q.150	<b>The type of immunity in which antibodies are</b> A) Passive Immunity B) Artificial Active Immunity	
Q.150 Q.151	A) Passive Immunity	e passed from one individual to another is calle C) Natural Active Immunity D) Humoral Immunity
-	<ul> <li>A) Passive Immunity</li> <li>B) Artificial Active Immunity</li> <li>To combat the active infections of tetanu immunization is used:</li> <li>A) Active</li> </ul>	e passed from one individual to another is called C) Natural Active Immunity D) Humoral Immunity rs, rabies and snakes the method C) Active Artificial
Q.151	<ul> <li>A) Passive Immunity</li> <li>B) Artificial Active Immunity</li> <li>To combat the active infections of tetanuity</li> <li>To combat the active infections of tetanuity</li> <li>A) Active</li> <li>B) Humoral</li> </ul>	e passed from one individual to another is called C) Natural Active Immunity D) Humoral Immunity s, rabies and snakes the method C) Active Artificial D) Passive
-	<ul> <li>A) Passive Immunity</li> <li>B) Artificial Active Immunity</li> <li>To combat the active infections of tetanuity</li> <li>To combat the active infections of tetanuity</li> <li>To combat the active infections of tetanuity</li> <li>A) Active</li> <li>B) Humoral</li> <li>In antibody molecule, two heavy and two light</li> </ul>	e passed from one individual to another is called C) Natural Active Immunity D) Humoral Immunity s, rabies and snakes the method C) Active Artificial D) Passive ht chains are bonded by:
Q.151	<ul> <li>A) Passive Immunity</li> <li>B) Artificial Active Immunity</li> <li>To combat the active infections of tetanuity</li> <li>To combat the active infections of tetanuity</li> <li>A) Active</li> <li>B) Humoral</li> </ul>	e passed from one individual to another is called C) Natural Active Immunity D) Humoral Immunity s, rabies and snakes the method C) Active Artificial D) Passive
Q.151	<ul> <li>A) Passive Immunity</li> <li>B) Artificial Active Immunity</li> <li>To combat the active infections of tetanue immunization is used: <ul> <li>A) Active</li> <li>B) Humoral</li> </ul> </li> <li>In antibody molecule, two heavy and two lig</li> <li>A) Disulphide Bond</li> <li>B) Monosulphide Bond</li> <li>Variable amino acid sequences in antibody molecule</li> </ul>	e passed from one individual to another is called C) Natural Active Immunity D) Humoral Immunity Is, rabies and snakes the method C) Active Artificial D) Passive ht chains are bonded by: C) Hydrogen Bond D) Ionic Bond molecule are found in
Q.151 Q.152	<ul> <li>A) Passive Immunity</li> <li>B) Artificial Active Immunity</li> <li>To combat the active infections of tetanue immunization is used: <ul> <li>A) Active</li> <li>B) Humoral</li> </ul> </li> <li>In antibody molecule, two heavy and two lig</li> <li>A) Disulphide Bond</li> <li>B) Monosulphide Bond</li> </ul>	e passed from one individual to another is called C) Natural Active Immunity D) Humoral Immunity as, rabies and snakes the method C) Active Artificial D) Passive ht chains are bonded by: C) Hydrogen Bond D) Ionic Bond
Q.151 Q.152	<ul> <li>A) Passive Immunity</li> <li>B) Artificial Active Immunity</li> <li>To combat the active infections of tetanue immunization is used: <ul> <li>A) Active</li> <li>B) Humoral</li> </ul> </li> <li>In antibody molecule, two heavy and two lig</li> <li>A) Disulphide Bond</li> <li>B) Monosulphide Bond</li> </ul> Variable amino acid sequences in antibody meaning and the sequences in antibody meaning antibody meaning and the sequences in antibody meaning antibody meaning and the sequences in antibody meaning antibo	<ul> <li>e passed from one individual to another is called</li> <li>C) Natural Active Immunity</li> <li>D) Humoral Immunity</li> <li>ns, rabies and snakes the method</li> <li>c) Active Artificial</li> <li>D) Passive</li> <li>ht chains are bonded by:</li> <li>C) Hydrogen Bond</li> <li>D) Ionic Bond</li> <li>nolecule are found in</li> <li>C) One heavy and one light chain</li> </ul>

				Page 15 of 19
Q.155	Photosyste			
	A) 680 nm			
	B) 780 nm	IMPORTA	NT	
Q.156	Cyclic flow			
	A) ATP and (			
	B) ATP	Unit Wise MDCAT Pa	st Papers	
Q.157	Immediate	Book is Very Importa	nt for the	
Q.157	A) Unstable	Preparation. This Boo	ok	hd
	B) Unstable	Available only online		nd m
			VVICII	
Q.158	Functional	Free Home Delvery.		
	A) —CH₃		.,	
	В) —СНО		D) —OH	
0 4 5 0				
Q.159		d or phage DNA is called:		
	A) Clone DNA		C) cDNA	
	B) Recombinant DNA		D) rDNA	
Q.160	The rapid exchange	of materials through carrier	proteins across the plasm	a membrane is called:
<b>L</b>	A) Passive Diffusion	jj	C) Endocytosis	
	B) Active Transport		D) Facilitated Diffusion	
Q.161		e of mitochondria form exte		
	A) Cristae		C) Lamella	
	B) Cisternae		D) Bifidae	
Q.162	Which one of the fo	lowing organelle is found in	hoth prokarvotic and eu	karvotic cells?
Q.102	A) Centriole	iowing organetic is found in	C) Nucleus	
	B) Endoplasmic Reticul	um	D) Ribosome	
	, ,		,	
Q.163		ch on hydrolysis <mark>y</mark> ield polyh		e subunits are:
	A) Lipids		C) Polynucleotides	
	B) Proteins		D) Carbohydrates	
Q.164	Which one of the fo	lowing is the formula struct	ture of D $(a)$ alucose?	
<b>4</b> ••	CH <sub>2</sub> OH		CH <sub>2</sub> OH	
				H
	Кон н		Кн н)	
	OH C	н	Н Н ОН	
	A) H OH		с) <sup>ОН</sup> ОН	
	ОН		C)	
		)H	H <sub>2</sub> CHO 0	Н
	н н			
		1	н үшүү н	
			р) ОН ОН	
	B) H OH		D) OH OH	
Q.165	Secondary structure	of protein is found in:		
<b>L</b>	A) Trypsin		C) Insulin	
	B) Keratin		D) Glucagon	
Q.166		y combination of fatty acids		
	A) Alcohol		C) Serine	
	B) Glycerol		D) Cysteine	

### Page 16 of 19

Q.169

Phosphodiester bond is: Q.167 A) P-O-C-P-O-C B) C-O-P

C) C-O-P-O-C D) C-C-O-P

#### 0.168 An enzyme required Mg<sup>++</sup> to catalyze the substrate. The Mg<sup>++</sup> is best identified as: A) Prosthetic group C) Co-enzyme

B) Activator

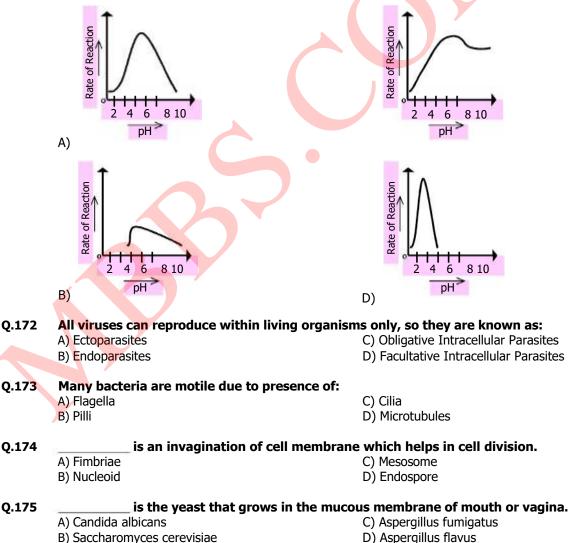
D) Inhibitor

Substrate Inhibitor Enzyme This figure represents inhibitor. A) Non-competitive B) Competitive

C) Irreversible D) Isosteric

- Q.170 model the active site of enzyme is modified as the substrate interacts According to with enzyme.
  - A) Induced fit B) Lock and Key

- C) Emil Fischer D) Fluid Mosaic
- Q.171 Which one of the following graphs shows how the rate of reaction of pepsin is affected by pH?



D) Aspergillus flavus

Q.176	<b>Taenia is a</b> A) Cnidaria B) Aschelmir	READ	) ME	Page 17 of 19 n.	
o 177	Deducef	MDCAT UNIT WISE PAST F	PAPERS Book By Mbbs.com.pk is		
Q.177	Body of	recommended by the topper. T	his book is only available on website	ainly sex organs.	
	A) Planaria	mbbs.com.pk wit	h Free Home Delivery.		
	B) Ascaris	Do not Waste Your Time. Get I	MDCAT Unit Wise Past Paper Book.		
0 1 7 0				belongs to phylum	
Q.178				belongs to phylum	
	nematode.				
	A) Taenia so				
	B) Schistosoma				
Q.179	In radial symn represents	netry all body parts are arra mode of life.	nged around the central axis. R	adial symmetry	
	A) Sessile		C) Active		
	B) Streamlined		D) Parasitic		
	_,		-,		
Q.180	Pseudo-coelomates have a body cavity but it is not true coelom. Which one of the following is included in the group.				
	A) Planaria		C) Earthworm		
	B) Tapeworm		D) Ascaris		
0 101	Discotion of		with due to the action of any	nrocont in active	
Q.181	Digestion of		vity due to the action of enzyme	present in saliva.	
	A) Starch		C) Fatty Acids		
	B) Cellulose		D) Polypeptides		
Q.182	Food enters fr	om stomach into small inte	stine through:		
	A) Pyloric Sphine	ter	C) Semilunar valve		
	B) Cardiac Sphin	cter	D) Diaphragm		
Q.183		are the part of a gastr <mark>ic</mark> gla	nd which produce hydrochloric	acid.	
	A) Parietal Cells		C) Chief Cells		
	B) Goblet Cells		D) Zymogen Cells		
Q.184	Protein components of food are digested by the enzymatic secretion of:				
-	A) Goblet Cells		C) Zymogen Cells		
	B) Parietal Cells		D) Oxyntic Cells		
A 195	-	om consists of different low	ers, the innermost is known as:		
Q.185	A) Submucosa	en consists of unreferit lay	C) Muscularis		
	B) Mucosa		D) Serosa		
	D) Mucosa		D) Selosa		
Q.186	In human the	closed sac which surrounds	the heart is:		
4.100	A) Endocardium	crosed suc which surrounds	C) Pericardium		
	B) Myocardium		D) Epicardium		
	By Hyocardium				
Q.187	Chordae tendi	nea are fibrous cords attacl	ned with:		
	A) Cardiac end o		C) Pyloric sphincter of stoma	ch	
	B) Tricuspid valv		D) Eyelid	-	
	-,		_ , _ ,		
Q.188	Bicuspid valve	controls the flow of blood	from:		
•	A) Right atrium t		C) Left ventricle to aorta		
		e to pulmonary artery	D) Left atrium to left ventricl	e	
		. , ,	,		
Q.189	Carboxyhaem	oglobin (10-20%) is formed	when CO <sub>2</sub> combines with:		
	A) Amino group		C) Haem portion of haemogl	obin	
-		aemoglobin	D) Plasma proteins		
-	D) II OII part OI II	-	, , , , , , , , , , , , , , , , , , , ,		
-	b) from part of m				
Q.190	Breathing con	sists of:			
Q.190		sists of:	C) One phase		
Q.190	Breathing con		C) One phase D) Two phases		

Q.191	Bowman's capsule continues as extensively	y convoluted portion known as: C) Efferent arterioles
	A) Peritubular capillaries	,
	B) Proximal convuluted tubules	D) Afferent arterioles
Q.192	Restriction endonucleases cleave the	of duplex DNA.
	A) Nitrogenous base	C) Phosphodiester bond
	B) Base sugar	D) Hydrogen bond
Q.193	The enzyme which is responsible for the fo	rmation of bond between two double stranded DI
-	fragments is:	
	A) Endonuclease	C) Ligase
	B) Urease	D) Helicase
~		2)
Q.194	The organisms of third trophic level are:	
	A) Primary consumer	C) Tertiary consumer
	B) Primary producer	D) Secondary consumer
Q.195	The ultimate source of energy in an ecosys	
	A) Photosynthesis	C) Plants
	B) Sun	D) Water
0 100		
Q.196	All the food chains and food webs begin wi	
	A) Detritus	C) Green plants
	B) Herbivores	D) Omnivores
Q.197	The change from bare rock or open area is	rapid, especially in the initial stages and follows a
	series of recognizable and hence predictab	
	A) Pioneers	C) Succession
	B) Xerosere	D) Secondary succession
0 100	The decline in the thickness of ozone layer	is coursed by
Q.198	A) Increasing level of nitrogen oxide	C) Decreasing level of CFCs
		-
	B) Decreasing level of O <sub>2</sub>	D) Increasing level of CFCs
0 100	Which one of the following is considered a	s strong evidence of evolution?
Q.199		
Q.199	A) Embryology Record	C) Biochemical Record
Q.199		D) Fossil Record
-	A) Embryology Record B) Molecular Record	D) Fossil Record
Q.200	<ul> <li>A) Embryology Record</li> <li>B) Molecular Record</li> <li>Structures found in different species which</li> </ul>	D) Fossil Record
-	<ul> <li>A) Embryology Record</li> <li>B) Molecular Record</li> <li>Structures found in different species which are called:</li> </ul>	D) Fossil Record
-	<ul> <li>A) Embryology Record</li> <li>B) Molecular Record</li> <li>Structures found in different species which</li> </ul>	D) Fossil Record
Q.200	<ul> <li>A) Embryology Record</li> <li>B) Molecular Record</li> <li>Structures found in different species which are called: <ul> <li>A) Homologous</li> <li>B) Analogous</li> </ul> </li> </ul>	<ul> <li>D) Fossil Record</li> <li>are believed to have a common evolutionary original</li> <li>C) Vestigial</li> <li>D) Fossilized</li> </ul>
-	<ul> <li>A) Embryology Record</li> <li>B) Molecular Record</li> <li>Structures found in different species which are called:</li> <li>A) Homologous</li> <li>B) Analogous</li> <li>Which one of the following is X-linked trait</li> </ul>	D) Fossil Record are believed to have a common evolutionary orig C) Vestigial D) Fossilized ?
Q.200	<ul> <li>A) Embryology Record</li> <li>B) Molecular Record</li> <li>Structures found in different species which are called: <ul> <li>A) Homologous</li> <li>B) Analogous</li> </ul> </li> <li>Which one of the following is X-linked trait <ul> <li>A) Male pattern baldness</li> </ul> </li> </ul>	<ul> <li>D) Fossil Record</li> <li>are believed to have a common evolutionary orig</li> <li>C) Vestigial</li> <li>D) Fossilized</li> <li>C) Haemophilia</li> </ul>
Q.200	<ul> <li>A) Embryology Record</li> <li>B) Molecular Record</li> <li>Structures found in different species which are called:</li> <li>A) Homologous</li> <li>B) Analogous</li> <li>Which one of the following is X-linked trait</li> </ul>	D) Fossil Record are believed to have a common evolutionary orig C) Vestigial D) Fossilized ?
Q.200 Q.201	<ul> <li>A) Embryology Record</li> <li>B) Molecular Record</li> <li>Structures found in different species which are called: <ul> <li>A) Homologous</li> <li>B) Analogous</li> </ul> </li> <li>Which one of the following is X-linked trait <ul> <li>A) Male pattern baldness</li> </ul> </li> </ul>	<ul> <li>D) Fossil Record</li> <li>are believed to have a common evolutionary orig</li> <li>C) Vestigial</li> <li>D) Fossilized</li> <li>C) Haemophilia</li> </ul>
Q.200 Q.201	<ul> <li>A) Embryology Record</li> <li>B) Molecular Record</li> <li>Structures found in different species which are called: <ul> <li>A) Homologous</li> <li>B) Analogous</li> </ul> </li> <li>Which one of the following is X-linked trait <ul> <li>A) Male pattern baldness</li> <li>B) Diabetes mellitus</li> </ul> </li> </ul>	<ul> <li>D) Fossil Record</li> <li>are believed to have a common evolutionary orig</li> <li>C) Vestigial</li> <li>D) Fossilized</li> <li>C) Haemophilia</li> </ul>
Q.200 Q.201	<ul> <li>A) Embryology Record</li> <li>B) Molecular Record</li> <li>Structures found in different species which are called: <ul> <li>A) Homologous</li> <li>B) Analogous</li> </ul> </li> <li>Which one of the following is X-linked trait <ul> <li>A) Male pattern baldness</li> <li>B) Diabetes mellitus</li> </ul> </li> <li>A character determined by three alleles is:</li> </ul>	<ul> <li>D) Fossil Record</li> <li>are believed to have a common evolutionary orig</li> <li>C) Vestigial</li> <li>D) Fossilized</li> <li>C) Haemophilia</li> <li>D) Erythroblastosis fietalis</li> </ul>
Q.200 Q.201 Q.202	<ul> <li>A) Embryology Record</li> <li>B) Molecular Record</li> <li>Structures found in different species which are called: <ul> <li>A) Homologous</li> <li>B) Analogous</li> </ul> </li> <li>Which one of the following is X-linked trait</li> <li>A) Male pattern baldness</li> <li>B) Diabetes mellitus</li> </ul> A character determined by three alleles is: <ul> <li>A) Human skin colour</li> <li>B) Human blood group</li> </ul>	<ul> <li>D) Fossil Record</li> <li>are believed to have a common evolutionary orig</li> <li>C) Vestigial</li> <li>D) Fossilized</li> <li>C) Haemophilia</li> <li>D) Erythroblastosis fietalis</li> <li>C) Human eye colour</li> <li>D) Human Rh factor</li> </ul>
Q.200	<ul> <li>A) Embryology Record</li> <li>B) Molecular Record</li> <li>Structures found in different species which are called: <ul> <li>A) Homologous</li> <li>B) Analogous</li> </ul> </li> <li>Which one of the following is X-linked trait <ul> <li>A) Male pattern baldness</li> <li>B) Diabetes mellitus</li> </ul> </li> <li>A character determined by three alleles is: <ul> <li>A) Human skin colour</li> <li>B) Human blood group</li> </ul> </li> <li>The total number of genes in a population in the second secon</li></ul>	<ul> <li>D) Fossil Record</li> <li>are believed to have a common evolutionary orig</li> <li>C) Vestigial</li> <li>D) Fossilized</li> <li>C) Haemophilia</li> <li>D) Erythroblastosis fietalis</li> <li>C) Human eye colour</li> <li>D) Human Rh factor</li> <li>is called:</li> </ul>
Q.200 Q.201 Q.202	<ul> <li>A) Embryology Record</li> <li>B) Molecular Record</li> <li>Structures found in different species which are called: <ul> <li>A) Homologous</li> <li>B) Analogous</li> </ul> </li> <li>Which one of the following is X-linked trait <ul> <li>A) Male pattern baldness</li> <li>B) Diabetes mellitus</li> </ul> </li> <li>A character determined by three alleles is: <ul> <li>A) Human skin colour</li> <li>B) Human blood group</li> </ul> </li> <li>The total number of genes in a population if A) Gene pool</li> </ul>	D) Fossil Record a are believed to have a common evolutionary orig C) Vestigial D) Fossilized C) Haemophilia D) Erythroblastosis fietalis C) Human eye colour D) Human Rh factor is called: C) Genome
Q.200 Q.201 Q.202	<ul> <li>A) Embryology Record</li> <li>B) Molecular Record</li> <li>Structures found in different species which are called: <ul> <li>A) Homologous</li> <li>B) Analogous</li> </ul> </li> <li>Which one of the following is X-linked trait <ul> <li>A) Male pattern baldness</li> <li>B) Diabetes mellitus</li> </ul> </li> <li>A character determined by three alleles is: <ul> <li>A) Human skin colour</li> <li>B) Human blood group</li> </ul> </li> <li>The total number of genes in a population in the second secon</li></ul>	<ul> <li>D) Fossil Record</li> <li>are believed to have a common evolutionary orig</li> <li>C) Vestigial</li> <li>D) Fossilized</li> <li>C) Haemophilia</li> <li>D) Erythroblastosis fietalis</li> <li>C) Human eye colour</li> <li>D) Human Rh factor</li> <li>is called:</li> </ul>
Q.200 Q.201 Q.202 Q.203	<ul> <li>A) Embryology Record</li> <li>B) Molecular Record</li> <li>Structures found in different species which are called: <ul> <li>A) Homologous</li> <li>B) Analogous</li> </ul> </li> <li>Which one of the following is X-linked trait</li> <li>A) Male pattern baldness</li> <li>B) Diabetes mellitus</li> </ul> <li>A character determined by three alleles is: <ul> <li>A) Human skin colour</li> <li>B) Human blood group</li> </ul> </li> <li>The total number of genes in a population if A) Gene pool</li> <li>B) Allele pool</li> <li>is the branch of Biology us</li>	<ul> <li>D) Fossil Record</li> <li>are believed to have a common evolutionary orig</li> <li>C) Vestigial</li> <li>D) Fossilized</li> <li>C) Haemophilia</li> <li>D) Erythroblastosis fietalis</li> <li>C) Human eye colour</li> <li>D) Human Rh factor</li> <li>is called:</li> <li>C) Genome</li> <li>D) Genomic library</li> </ul>
Q.200 Q.201 Q.202	<ul> <li>A) Embryology Record</li> <li>B) Molecular Record</li> <li>Structures found in different species which are called: <ul> <li>A) Homologous</li> <li>B) Analogous</li> </ul> </li> <li>Which one of the following is X-linked trait</li> <li>A) Male pattern baldness</li> <li>B) Diabetes mellitus</li> </ul> <li>A character determined by three alleles is: <ul> <li>A) Human skin colour</li> <li>B) Human blood group</li> </ul> </li> <li>The total number of genes in a population if A) Gene pool</li> <li>B) Allele pool</li>	<ul> <li>D) Fossil Record</li> <li>are believed to have a common evolutionary orig</li> <li>C) Vestigial</li> <li>D) Fossilized</li> <li>C) Haemophilia</li> <li>D) Erythroblastosis fietalis</li> <li>C) Human eye colour</li> <li>D) Human Rh factor</li> <li>is called:</li> <li>C) Genome</li> <li>D) Genomic library</li> </ul>
Q.200 Q.201 Q.202 Q.203	<ul> <li>A) Embryology Record</li> <li>B) Molecular Record</li> <li>Structures found in different species which are called: <ul> <li>A) Homologous</li> <li>B) Analogous</li> </ul> </li> <li>Which one of the following is X-linked trait</li> <li>A) Male pattern baldness</li> <li>B) Diabetes mellitus</li> </ul> <li>A character determined by three alleles is: <ul> <li>A) Human skin colour</li> <li>B) Human blood group</li> </ul> </li> <li>The total number of genes in a population if A) Gene pool</li> <li>B) Allele pool</li> <li>is the branch of Biology us</li>	<ul> <li>D) Fossil Record</li> <li>are believed to have a common evolutionary orig</li> <li>C) Vestigial</li> <li>D) Fossilized</li> <li>C) Haemophilia</li> <li>D) Erythroblastosis fietalis</li> <li>C) Human eye colour</li> <li>D) Human Rh factor</li> <li>is called:</li> <li>C) Genome</li> <li>D) Genomic library</li> </ul>
Q.200 Q.201 Q.202 Q.203 Q.204	<ul> <li>A) Embryology Record</li> <li>B) Molecular Record</li> <li>Structures found in different species which are called: <ul> <li>A) Homologous</li> <li>B) Analogous</li> </ul> </li> <li>Which one of the following is X-linked trait</li> <li>A) Male pattern baldness</li> <li>B) Diabetes mellitus</li> </ul> <li>A character determined by three alleles is: <ul> <li>A) Human skin colour</li> <li>B) Human blood group</li> </ul> </li> <li>The total number of genes in a population if A) Gene pool</li> <li>B) Allele pool <ul> <li>is the branch of Biology us</li> </ul> </li>	<ul> <li>D) Fossil Record</li> <li>are believed to have a common evolutionary orig</li> <li>C) Vestigial</li> <li>D) Fossilized</li> <li>C) Haemophilia</li> <li>D) Erythroblastosis fietalis</li> <li>C) Human eye colour</li> <li>D) Human Rh factor</li> <li>is called:</li> <li>C) Genome</li> <li>D) Genomic library</li> <li>sed for the identification and interpretation of foss</li> <li>C) Zoogeography</li> <li>D) Biodiversity</li> </ul>
Q.200 Q.201 Q.202 Q.203	<ul> <li>A) Embryology Record</li> <li>B) Molecular Record</li> <li>Structures found in different species which are called: <ul> <li>A) Homologous</li> <li>B) Analogous</li> </ul> </li> <li>Which one of the following is X-linked trait</li> <li>A) Male pattern baldness</li> <li>B) Diabetes mellitus</li> </ul> <li>A character determined by three alleles is: <ul> <li>A) Human skin colour</li> <li>B) Human blood group</li> </ul> </li> <li>The total number of genes in a population if A) Gene pool</li> <li>B) Allele pool <ul> <li>is the branch of Biology us</li> </ul> </li>	<ul> <li>D) Fossil Record</li> <li>are believed to have a common evolutionary orig</li> <li>C) Vestigial</li> <li>D) Fossilized</li> <li>C) Haemophilia</li> <li>D) Erythroblastosis fietalis</li> <li>C) Human eye colour</li> <li>D) Human Rh factor</li> <li>is called:</li> <li>C) Genome</li> <li>D) Genomic library</li> <li>sed for the identification and interpretation of foss</li> <li>C) Zoogeography</li> </ul>

Q.206 Presence of large central vacuole is the characteristic of: A) Prokaryotes C) Fungi B) Protists D) Plants Q.207 The basic structure of plasma membrane is provided by: A) Proteins C) Cytoskeleton B) Cholesterols D) Phospholipids The organelle involved in detoxification of drugs and poisons in the liver cells is: Q.208 A) Smooth Endoplasmic Reticulum C) Golgi Apparatus B) Rough Endoplasmic Reticulum D) Lysosomes Q.209 Down's syndrome is characterized by at chromosome 21. A) Trisomy C) Polysomy B) Monosomy D) Disomy Q.210 Which of the following is an example of autosomal non-disjunction? A) Turner's Syndrome C) Metastasis B) Jacob's Syndrome D) Down's syndrome Infertility, short height, webbed neck and low hairline at lack are symptoms of Q.211 syndrome. A) Turner's C) Edward's B) Down's D) Patau's 0.212 The concentration of sodium ions in body fluids is controlled by the hormone: A) Renin C) Angiotensin B) Aldosterone D) CPK A hormone released from posterior pituitary lobe acts to be actively transport water from filtrate Q.213 is collecting tubules back to kidney is shown as: A) Renin C) Angiotensin B) Antidiuretic hormone D) Growth Factor The removal metabolic waste from the blood is called: Q.214 C) Kidney Failure A) Thermoregulation B) Osmoregulation D) Excretion Highly toxic nitrogenous excretory product is: Q.215 A) CO<sub>2</sub> C) Urea B) Uric Acid D) Ammonia Humans have homeostatic thermostat present in a specified portion of the brain that is: Q.216 A) Lateral ventricle C) Spinal Cord B) Thalamus D) Hypothalamus The disease in which death of small number of cells in the basal ganglia leads to inability to Q.217 select and initiate patterns of movement is known as: A) Fever C) Epilepsy B) Alzheimer's Disease D) Parkinson's Disease A neurological disorder characterized by the decline in brain function is\_\_\_\_\_\_. Its symptoms Q.218 are similar to those diseases that cause dementia. A) Parkinson's Disease C) Alzheimer's Disease B) Epilepsy D) Diabetes Q.219 A discharge by brain which causes chaotic activity in motor and sensory areas is: A) Meningitis C) Epilepsy B) Alzheimer's Disease D) Parkinson's Disease Q.220 XXXXXXXXXX. A) XXXXXX C) XXXXXX (X) B) XXXXXX D) XXXXXX (MCAT Preparations 2017 - ARK)

(Copyright Protected MCAT Preparations 2017 - ARK)





UHS MDCAT Past papers Unit-wise Solved (2008-2019) current edition is available now at www.mbbs.com.pk.reparation A complete Solved Past papers Hard Copy booklet for 100% UHS MDCAT Entry Test preparation.

For Order Call/WhatsApp 03047418334

### How To Place Order For Helping Material Book For NUMS Entry Test:

- Follow steps:
  - Visit <u>www.mbbs.com.pk</u>

# MBBS.COM.PK



### ON Desktop Follow these steps



UHS MDCAT PAST PAPERS UNIT-WISE SOLVED

 $\underline{https://mbbs.com.pk/product/mdcat-past-papers/}$ 

www.mbbs.com.pk