# PMC PRACTICE TEST 01

## CHEMISTRY

Q.1	The carbonyl compound which is attached with at least one H atom at one		
	side is called as?		
	A. Ketones	B. Aldehydes	
	C. Ethers	D. Alkyl halides	
Q.2	The difference in the E.N values of the b	onded atoms b/w two atoms is an	
	index toof covalent bond		
	A. polar nature	B. non-polar nature	
	C. strength	D. nature	
Q.3	The equilibrium Constant is always written as a ratio of		
	A. Reactants over products	B. Products over reactants	
	C. Product times Reactants	D. None of these	
Q.4	Melting and boiling point of transition el	ements is higher due to?	
	A. Higher binding energies	B. Strong metallic bonding	
	C. Hardness	D. All of these	
Q.5	The smallest part of the crystal lattice ha	s all the properties of the entire	
	crystals, this is called		
	A. unit	B. unit cell	
	C. unit crystal	D. all of these	
Q.6	The Relative atomic mass of copper is		
	A. 63.345amu	B. 63.455amu	
	C. 63.55 amu	D. 63.456amu	
Q.7	Current in electrolysis is carried through		
	A. Free electrons	B. Positive Ions	
	C. Negative Ions	D. Both B and C	
Q.8	The substance that is attached to the enz	s attached to the enzyme at specific place and converted	
	into product is called as?		
	A. Co-factor	B. Iso-zyme	
	C. Active site	D. Substrate	
Q.9	How carboxylic acid are formed from alc	cohol?	
	A. Hydrolysis	B. Reduction	
	C. Oxidation	D. protonation	
Q.10			
	A. Positive	B. Negative	
	C. 0	<ul> <li>D. Neither positive nor negative</li> </ul>	
Q.11	Which alkyl halide give SN <sub>2</sub> reactions?		
	A. Secondary	B. Primary	
	C. Tertiary	D. All of these	
Q.12	In which of the following water evaporate		
	A. Cup	B. Saucepan	
	C. Glass	D. Small bowl	
Q.13			
	A. Heat	B. Sun light	
	C. Catalyst	D. Oxygen	
Q.14	Which type of bonds are break during cr	_	
	A. C-C	B. C-H	
	C. Both C-C and C-H	D. C-O	
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Q.15	.15 What is the common name of the compound? CH3-(CH2)2-CH2-Cl		
	A. Chloropentane	B. n-Chloropentane	
	C. n-pentyl chloride	D. 1-chloropentane	
Q.16	SN1 reactions have which of the followi	ng specie formed and consumed in the	
	reaction ?		
	A. Transition state	B. Intermediate	
	C. Carbanion	D. Carbene	
Q.17	Which ion will have a maximum value	of the heat of hydration?	
	A. A1 <sup>-3</sup>	B. Cs+	
	C. Ba <sup>+</sup>	D. Mg <sup>+2</sup>	
Q.18	Which of the following method is used to prepare Ethylene glycol from		
	ethene?		
	A. Dehydration	<ul> <li>B. Hydroxylation</li> </ul>	
	C. Hydration	D. Luca's test	
Q.19	Which of the following is a poor leaving	g group in nucleophilic substitution	
	reactions?		
	A. Cl	B. Br	
	C. I-	D. OH	
Q.20	By increasing which of the following fa	The state of the s	
	A. Atomic radius	B. Ionization energy	
	C. Ionic radius	D. Hydration energy	
Q.21	What are the products of destructive d		
	A. Coal tar	B. Coke	
	C. Coal gas	D. All of above	
Q.22	Which of the following condition is con	stant in Bomb calorimeter?	
	A. Pressure	B. Volume	
0.22	C. Temperature	B. Volume D. All of these	
Q.23	C. Temperature The shielding effect is also called	D. All of these	
Q.23	C. Temperature The shielding effect is also called A. Zee effect	D. All of these  B. screening effect	
	C. Temperature  The shielding effect is also called  A. Zee effect  C. negative effect	D. All of these  B. screening effect  D. reducing effect	
	C. Temperature The shielding effect is also called A. Zee effect C. negative effect The reactions of carboxylic acids which	D. All of these  B. screening effect  D. reducing effect involve H atom removal of OH group	
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Q.24	C. Temperature The shielding effect is also called A. Zee effect C. negative effect The reactions of carboxylic acids which form as major products in all re A. Esters C. Ketones	D. All of these  B. screening effect  D. reducing effect  involve H atom removal of OH group eactions?  B. Nitriles  D. Salts	
	C. Temperature The shielding effect is also called A. Zee effect C. negative effect The reactions of carboxylic acids which form as major products in all re A. Esters C. Ketones Which of the following is most soluble	D. All of these  B. screening effect D. reducing effect involve H atom removal of OH group eactions? B. Nitriles D. Salts in water?	
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Q.24 Q.25 Q.26 Q.27	C. Temperature The shielding effect is also called A. Zee effect C. negative effect The reactions of carboxylic acids which form as major products in all reactions A. Esters C. Ketones Which of the following is most soluble in the following is most soluble in the following is produced by the followi	B. screening effect D. reducing effect involve H atom removal of OH group eactions? B. Nitriles D. Salts in water? B. Pentanoic acid D. Butanoic acid heating of bones? B. Cheese D. Gelly at are called isotope having different  B. physical, chemical D. chemical, atomic ch changes their concentration in	

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Q.29	Lattice Points are also called	
	A. space lattice	B. crystal lattice
	C. lattice sites	D. Lattice location
Q.30	The molecules of have dipole-dipole in	nteraction
	A. methane	B. neon
	C. ammonia	D. ethane-ethyl alcohol
0.21	<del></del>	
Q.31	The e/m values for the positive rays depe	nds onenclosed in a
	discharge tube.	Tambi and a second
	A. nature of gas	B. properties of gas
	C. composition of gas	D. all of these
Q.32	How many chain isomers of Pentane is pe	ossible?
	A. Two	B. Four
	C. Three	D. Five
Q.33	d block elements are also called as	?
	A. Rare earth elements	B. Outer transition elements
	C. Inner transition elements	D. Typical transition elements
Q.34		Dr. Typicar transition elements
Q.54	A. No Reaction	B. Backward Reaction
	C. Little Forward Reaction	D. Complete Reaction
Q.35	Phenol reacts with calcium carbonation	Control of the Contro
	A. H <sub>2</sub> gas	B. CO2 gas
	C. O <sub>2</sub>	D. None of these
Q.36	Heat exchanged between the system and	surrounding at constant volume is
	shown by the relation?	
	A. $\Delta H = qv + w$	B. ΔE=(q)v
	C. ΔH=(q)v.	D. $\Delta E = (q)v + PV$
Q.37	At constant volume the heat supplied is e	qual to
	A. work done	B. Internal energy change
	C. enthalpy	D. entropy
Q.38	Covalent Character of hydrides decrease	
Q.20	A. Down the Group	B. Along period
	C. Along d- block	D. All of these
0.20		
Q.39	While calculating vapor pressure of a liq	
	mercury facing the vapors of a liquid is	due to pressure on surface of
	liquid in flask	
	A. compressed	B. depressed
	C. rises	D. lowers
Q.40	Organic compounds in which tetravalence	cy of carbon atom is satisfied are
	called as?	
	A. Saturated	B. Unsaturated
	C. Alkenes	D. Alkynes
Q.41	The ionization energy increases from left	to right in a period due to increase
	in	
	A. nuclear charge	B. number of electrons
	C. atomic number	D. all of these
0.42		
Q.42	How do the 'p' orbitals px, py, pz differ f	
	A. size	B. shape
	C. orientation	D. capacity

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Q.43	Urease in present in:	
	A. Yeast	B. Grapes
	C. Soya sauce	D. Soya bean
Q.44	f-block elements are called?	
	A. inner transition	B. outer transition
	C. both	D. none
Q.45	With different number of moles of reactants and product the volume of	
	system	
	A. Remains unchanged	B. changes
	C. decrease	D. increase
Q.46	Which of the following is not a de	rivative of benzene?
	A. Pyrrole	B. Furan
	C. Thiophene	D. All
Q.47		of electrophilic attack on alcohols?
	A. $C_2H_3OH + CH_3COOH \rightarrow H_2SL_4$	41
	B. $2C_2H_5OH + 2Na \rightarrow 2CH_5ONa +$	
	$C. C_2S_5OH + HCL \rightarrow Zncl_2 C_2H_5C$	L + H2O
	D. Both A and B	
Q.48	Drawing a graph between concen	AND THE PERSON NAMED IN COLUMN TO TH
	A. Straight line	B. parabola
	C. Curve	D. Scattered graph
Q.49		toms of hydrogen
	A. 6.022×10 <sup>23</sup>	B. 3×6.022×10 <sup>21</sup>
0.50	C. 2×6.022×10 <sup>23</sup>	D. 4×6. 22 ×10 <sup>23</sup>
Q.50	Which of the following compete v	
	A. E <sub>1</sub> , E <sub>2</sub> C. E <sub>2</sub> ,S <sub>1</sub>	B. E <sub>1</sub> , S <sub>2</sub> D. E <sub>2</sub> ,S <sub>3</sub>
Q.51	Friedrich prepared UREA from	De la constitución de la constit
Q.51	A. Amino Acids	B. Ammonium carbonate
	C. Ammonium cyanate	D. xapthin
Q.52	Which of the following family is l	
2.02	A. Nitrogen Family	B. Alkali metals
	C. Rare earth metals	D. Oxygen Family
Q.53	If a molecule contains 4 electron	pairs, The shape of molecule will be
	A. Tetrahedral	B. trigonal
	C. linear	D. none of these
Q.54	Casein is used in manufacturing of	of
	A. Buttons & buckles	B. Tanning of leather
	C. Gelatin	D. Bakery goods
Q.55		9 g of 1dm <sup>3</sup> H <sub>2</sub> and 1.4384 g of 1 dm <sup>3</sup> O <sub>2</sub>
	have number of molecules	
	A. Same	B. Different
	C. H <sub>2</sub> has more	D. O <sub>2</sub> has more
Q.56		lers in calculating the heat of formation of
	A. CCL	B. O <sub>3</sub>
	C. CO	D. C

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## **BIOLOGY**

Q.57	Coelom that develops from the archenteron as outpouching is?	
	A. Pseudocoelom	B. Schizocoelom
	C. Enterocoelom	D. both a and b
Q.58	Enzymes work by which of the	e following?
	A. increasing the activation ener	rgy
	B. reducing the activation energ	y
	C. making exergonic reactions e	endergonic
	D. making endergonic reactions	exergonic
Q.59	Ribosomes combined with mR	NA are called?
	A. lysosome	B. nucleosome
	C. polysome	D. polosome
Q.60	The upward movement of sap	by the xylem is:
	A. ascent of sap	B. plasmolysis
	C. deplasmolysis	D. guttation
Q.61	Photosystem II has molecules	which absorbs maximum light of?
	A. 680 nm	B. 100 nm
	C. 700 nm	D. 670nm
Q.62	What are the subunits of Caps	sids?
	A. Capsomeres	B. Flagella
	C. Hyphae	D. Septa
Q.63	An enzyme which requires a b	iological change in order to become active is
	called?	
	A. transferase	B. zymogen
	C. hydrogenase	D. trypsin
Q.64	When two or more clearly diff	ferent phenotypes exists in same population of
	species, the phenomenon is cal	lled?
	A. replication	B. polymorphism
	C. gene linkage	D. gene expression
	and de la communitation of the	The state of the s
Q.65		s of a sarcomere does not shorten during
Q.65		
Q.65	Which of the following section	
Q.65	Which of the following section contraction?	s of a sarcomere does not shorten during
	Which of the following section contraction? A. I band C. A band	B. H zone
	Which of the following section contraction? A. I band C. A band	B. H zone D. none of these
	Which of the following section contraction? A. I band C. A band The radial symmetry is found	B. H zone D. none of these in the animals of which of the following?
	Which of the following section contraction?  A. I band  C. A band  The radial symmetry is found A. Protozoa  C. Cnidaria	B. H zone D. none of these in the animals of which of the following? B. Porifera D. All of these
Q.66	Which of the following section contraction?  A. I band  C. A band  The radial symmetry is found  A. Protozoa  C. Cnidaria	B. H zone D. none of these in the animals of which of the following? B. Porifera D. All of these
Q.66	Which of the following section contraction?  A. I band C. A band The radial symmetry is found A. Protozoa C. Cnidaria When resources gets scarce, the	B. H zone D. none of these in the animals of which of the following? B. Porifera D. All of these ne population growth?
Q.66	Which of the following section contraction?  A. I band C. A band The radial symmetry is found A. Protozoa C. Cnidaria When resources gets scarce, the A. becomes fast C. remains same According to Ivanovski what a	B. H zone D. none of these in the animals of which of the following? B. Porifera D. All of these ne population growth? B. slows down D. none of these are soluble living germs
Q.66 Q.67	Which of the following section contraction?  A. I band C. A band The radial symmetry is found A. Protozoa C. Cnidaria When resources gets scarce, the A. becomes fast C. remains same	B. H zone D. none of these in the animals of which of the following? B. Porifera D. All of these ne population growth? B. slows down D. none of these
Q.66 Q.67 Q.68	Which of the following section contraction?  A. I band C. A band The radial symmetry is found A. Protozoa C. Cnidaria When resources gets scarce, th A. becomes fast C. remains same According to Ivanovski what a A. Bacteria C. Fungi	B. H zone D. none of these in the animals of which of the following? B. Porifera D. All of these ne population growth? B. slows down D. none of these are soluble living germs B. Viruses D. Both A and B
Q.66 Q.67	Which of the following section contraction?  A. I band C. A band The radial symmetry is found A. Protozoa C. Cnidaria When resources gets scarce, th A. becomes fast C. remains same According to Ivanovski what a A. Bacteria C. Fungi	B. H zone D. none of these in the animals of which of the following? B. Porifera D. All of these ne population growth? B. slows down D. none of these are soluble living germs B. Viruses D. Both A and B th respect to genes then they are called?
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Q.71 It is most energy rich compound A. FADH-B. ATP C. NADH D. GTP Q.72 A single motor neuron may innervate as few as 3-5 fibers in muscles of: A. upper arms B. legs C. eyes D. heart Q.73 Aquatic arthropods belonging to this class breathe through gills. B. Arachnids C. Crustaceans D. Arachnids and crustaceans Q.74 Which cells secrete flexible, elastic, non-living matrix collagen that surrounds the chondrocytes? B. Osteoclasts A. Osteocytes C. chondrocytes D. Osteoblasts Q.75 Salamander belongs to which of the following class? B. aves A. pisces C. reptiles D. amphibians Q.76 Darwin described his theory of natural selection as which of the following? A. Punctuated equilibrium B. Survival of the fittest C. Inheritance of acquired characteristics D. Descent with modification Q.77 In which step is lysozyme released by the bacteriophage? A. Attachment B. penetration C. injection D. replication Q.78 In asexual reproduction offspring are genetically? B. Identical if mutations do not occur. A. Identical to the parents C. Non identical to the parents D. both a and b Q.79 Most reflex arcs are: A. Monosynaptic reflex B. Polysynaptic reflex C. Hemi Synaptic Reflex D. None of these Q.80 Nitrogenous bases such as choline and serine are a significant part of which of the following? B. Phospholipids A. Sphingolipids C. Phosphodiester D. none of these Q.81 The wings of a bird and the wings of a beetle are considered? B. phylogenetic A. taxonomic C. homologous D. analogous Q.82 The voice box leads to the trachea which is also called A. bronchi B. bronchioles C. Windpipe D. alveolar duct Q.83 What is the function of lysozyme enzyme released by bacteriophages? A. Injecting DNA B. Replication C. Dissolve bacterial cell wall D. All Q.84 The function of cell wall in prokaryotes is B. to give specific shape A. to give cells rigidity C. to protect from asmotic lysis D. all of Above Q.85 How many monosaccharide molecules do oligosaccharides yield upon hydrolysis? A. 2 B. 5 C. 10 D. all of these

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A. Animal B. Plants C. Both D. None of these Q.87 Nutrition to egg in ovary is provided by which of the following? A. germ cells B. milk cells C. follicle cells D. all of these Q.88 Which portion of the brain is primarily responsible for transmitting the information to other parts of the nervous system? A. white matter B. Gray matter C. medulla D. All A, B and C Q.89 Gray matter is primarily composed of: A. axons B. synapse C. neuron somas D. None of these Q.90 What is the viral envelope is composed of? A. Proteins B. Glycoproteins C. lipids and proteins D. All of the above Q.91 The nervous system of arthropods has: A. A brain, a ventral nerve cord and several ganglia. B. A brain, a dorsal nerve cord and several ganglia. C. A brain, a dorsal and ventral nerve cord and several ganglia. D. A ventral nerve cord and several ganglia. Q.92 When vasopressin is not secreted, the condition that occurs is called? B. Diabetes mellitus A. Acromegaly C. Dwarfism D. Diabetes insipidus Q.93 Which of these is a eucoelomate? A. Earthworm B. Jelly-fish D. Planaria C. Sycon Q.94 What was the correct classification according to Linnaeus? A. Similar genera in one family B. Similar species in one genus C. Similar families in one order D. All of above Q.95 Many sarcomeres in series make up the length of a: A. Microtubules B. Myofibril C. Myosin filament D. M-line Q.96 Koshland in 1959 proposed the modified form of which of the following? A. Unit membrane model B. Fluid mosaic model C. Reflective index model D. Induced fit model Q.97 Extremely long molecule of DNA that is tightly folded to fit inside the cell component is called? A. Nucleus B. Chromosome C. Chromatin body D. Chromatid Q.98 Breathing is considered as a: B. Biochemical process A. Chemical process C. Mechanical process D. Both A and B Q.99 Which of the following best describes competitive inhibitors? A. Do occupy active site B. Destroy the structure of enzyme C. Resemble structurally with substrate D. Both B and C

Q.86 Carotenoids perform protective function in which of the following organism?

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	A. Days 5 to 10	B. Days 1 to 5
	C. Days 14 to 15	D. Days 11 to 14
Q.101	The membrane around the vacuol	e is known as?
	A. Tonoplast	B. Elaioplast
	C. Cytoplast	D. Amyloplast
Q.102	The infection of lungs is called	
	A. emphysema	B. asthma
	C. pneumonia	D. bronchitis
Q.103	Interconversion of carbohydrates	proteins and lipids in living cells are an
	example of?	
	A. Coordinated catabolic activities	B. Coordinated anabolic activities
	C. both A and B	D. none of these
0.104		maintaining the tertiary structure of
Q.10 ·	proteins?	4
	A. Ionic	B. Hydrogen
	C. Disulphide	D. Hydrophobic
O 105	The semi solid mass in stomach is	
Q.103	A. Bolus	B. Chyme
	C. Serum	D. Food
0.106		and the second s
Q.106	Vertebrates belong to phylum cho	
		B. The brain is enclosed by the skull.
	C. The embryos have gills.	
	D. The body develops from three ge	
Q.107	The second secon	orrect difference between a plant cell and a
	bacterial cell?	
	CONTRACTOR AND ADDRESS OF THE PARTY OF THE P	whereas a plant cell has 80S ribosomes.
		ission whereas a plant cell divides by mitosis.
	Annual Control of the	ear membrane whereas plant cells do.
	D. None of the above.	
Q.108	What would be the resolving pow	er of the objective length in a microscope if
	the eyepiece is 10X and total magn	nification is 40X?
	A. 4	B. 10
	C. 40	D. 400
Q.109	How much net gain of G3P is obta	ined after one calvin cycle?
	A. 3	B. 6
	C. 2	D. 1
0.110	Two populations of the same spec	ies over time grow distant from one
		wo populations be considered different
	species?	•••
	A. When the populations begin to ea	at different foods
	B. When there is a physical barrier, such as a river, between the two populations	
	C. When the two populations have not been in contact with one another for two	
	hundred years	
	D. When they are no longer able to	interbroad
		e of the modified endoplasmic reticulum
Q.111		•
Q.111	found in muscle cells?	D.O.
Q.111		B. Sarcomere D. Sarcoplasmic reticulum

Q.100 In a typical menstrual cycle of 28 days, what is the most likely fertile period?

Q.112 Carbohydrate catabolism is concerned with the fate of B. Glucose A. ATP C. Amino acid D. all of these Q.113 The scrotum is responsible for which of the following in the male reproductive system? B. Lubrication A. Synthesis of sperm C. Nourishment of sperm D. Temperature regulation Q.114 In Morgan's experiment when males and females of F1 generation mate with each other and produce F2 generation The number of red eyed males were: B. 2459 A. 2059 C. 782 D. 1101 Q.115 Human embryo remains enclosed in: A. Amniotic sac C. Chorion D. Allantois Q.116 Cholesterol is B. C27H46O A. Animal sterol C. 5 methyl groups D. All of these Q.117 Which type of bonds are never formed when a substrate fits into the active site of an enzyme? A. Hydrogen bonds B. Ionic interactions C. Hydrophobic interactions D. Covalent linkages Q.118 In some cases, the blastomere can produce complete embryo the cleavage will be B. Spiral and indeterminate A. Spiral and determinate D. Radial and indeterminate C. Radial and determinate Q.119 Primordial soup is a set of hypothetical conditions on ancient earth first proposed by? A. Dmitri Ivanovsky B. Dmitry Anuchin C. Nikolav Shatsky D. Alexander Oparin Q.120 Gibberellins may be substituted for which color of light, therefore promote flowering in long day plants? A. Red B. Blue C. Green D. White Q.121 Which of these is involved in coordinated movements of the body? A. Cerebellum B. Cerebrum C. Medulla D. Pons Q.122 It uses the single strand RNA as a template for making double stranded DNA A. DNA polymerase B. DNA ligase D. All of these C. Reverse transcriptase Q.123 These are largest animal viruses A. HIV B. Poxviruses C. Covid-19 D. HBV Q.124 True bacteria are termed as A. Eubacteria B. Archaebacteria C. Cyanobacteria D. None of above

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## PHYSICS Q.125 Ohm's Law is applicable only when temperature remains A. Changing B. Absolute zero C. Constant D. None of these Q.126 If a charge of 2C is moving with 5m/s enter at 30° in 3 T, calculate the force experienced by it A. 10N C. 20N D. 30N Q.127 Which of the following are component of half wave rectifier? A. Transformer B. Load resistance D. All of the above C. Power supply Q.128 Which of the following is not an assumption of the kinetic model of an ideal A. The size of the molecules is much smaller than the separation between molecules B. Molecules suffer negligible momentum change during wall collisions. C. Molecules do not exert force on each other except during a collision. D. The gas molecules are in random motion and may change their direction of motion after every collision

Q.129 The angular displacement of an object after one complete revolution is:

A. 0 radian B. π radian

C.  $2\pi$  radian D.  $(1/3) \times \pi$  radian

Q.130 Coulomb force is a

A. Short range force

B. Long range force

C. Medium range force D. None of these

Q.131 Motional emf induced in a coll is dependent on

A. Magnetic field B. Orientation

C. Length D. All of these

Q.132 Work function depends on:

A. Metals only

B. Nature of surface only

C. Both metals and nature of surface D. Threshold frequency

Q.133 Formula for Power is

A. P=IV
C. p= V+I
D. p=VQ

Q.134 Three types of radioactive elements are emitted when unstable nuclei undergo radioactive decay. Which of the following is not one of them?

A. alpha B. beta

C. gamma D. delta

Q.135 Radiations are classified by its \_\_\_\_\_ nature
A. Ionizing B. Non ionizing

C. Both A and B D. Radiations cannot be classified

Q.136 In which rectifier ripple factor is less

A. full wave
C. both A and B
D. none of them

Q.137 Force on a proton of charge 2e in a magnetic field of B at 45° while moving with 2 m/s is

A.  $2\sqrt{2 eB}$  B. 4eB C. 2eB D. Eb

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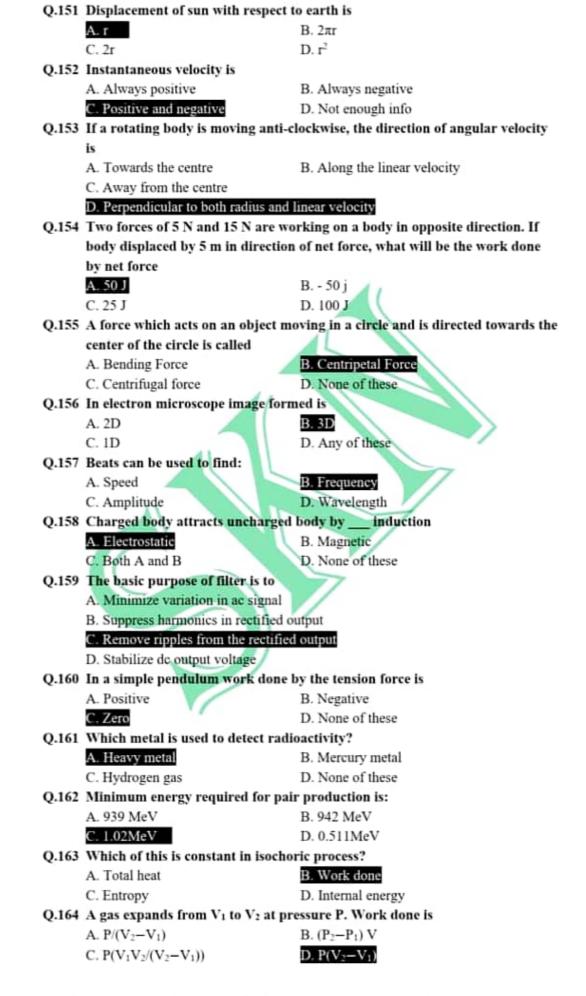
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Q.138 In a lamp load when more than one lamp are switched on the total resistance of the load A. Increases B. Decreases C. Remains same D. None of the above Q.139 If an object is undergoing an orbital motion around another object it is called A. Revolution B. Rotation C. Both of them D. None of them Q.140 Formula for electric field intensity is A. E=F/qB. E=3F/2aC. E=F/3q D. None of them Q.141 A fixed mass of an ideal gas is contained in a cylinder at constant temperature. Now the pressure of the gas is decreased. What happened to the molecules of gas? A. their mean square speed decreases B. Number of collision between molecules and walls of container decreased C. The force of attraction between them increase D. Their size decreases Q.142 A body of mass 10 kg moving at a height of 2 m, with uniform speed of 2 m/s. Its total energy is A. 316 J B. 216 J C. 392 J D. 416 J Q.143 Electric field lines due to a positive charge are: ... A. Always horizontal B. Always vertical D. Radially away from the charge C. Radially towards the charge Q.144 The source of x-rays generation is A. Cu B. H C. Na D. Al Q.145 Which of the following is not unit of power? A. horse power B. kilowatt C. kWh D. Nm/s Q.146 Which radiation is used in smoke detectors? A. alpha B. beta C. gamma D. all of these Q.147 Step up transformer have turns in secondary coil A. more B. less C. equal D. zero Q.148 In a Young's double-slit experiment, fringes are very close to each other. How can we increase the distance between fringes? A. by increasing the distance between light source and slits B. by increasing the distance from slits to the screen C. by increasing the distance between slits D. by increasing the frequency of light Q.149 If the supply frequency of a transformer increases, the secondary output voltage of the transformer A. Increases B. Decreases C. Remains unchanged D. Any of above Q.150 Wave nature of light is proved by: A. Polarisation B. Black body radiation C. Compton 's effect D. Photoelectric effect

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Q.165	The pendulum of a certain pendulu	m clock is made of brass. When the	
	temperature increases, what happe	ns to the period of the clock?	
	A. It increases	B. It decreases	
	C. It remains the same		
		namitura	
0.444		D. it decreases with the square of temperature	
Q.166	When a standing wave is set up on a string fixed at both ends, which of the		
	following statements is true?		
		nd the number of nodes is always even	
	B. Wavelength = length string / numb	per of nodes	
	C. The shape of the string at any insta	ant shows a symmetry about the midpoint of	
	the string		
	D. Frequency = number of nodes × fu	indamental frequency	
Q.167 In a stationary wave, the distance between a node and consecutive antin			
2.10	is:	erreen a noue and consecutive andinoue	
	A. A quarter of wavelength	B. 3/4 of wavelength	
	C. One wavelength	D. Half of wavelength	
Q.168		r) requires the greatest amount of heat? In	
	each case the material is the same.		
	A. 1.5 kg of the material is to be heat		
	B. 3.0 kg of the material is to be heater	ed by 3.5 C°	
	C. 0.50 kg of the material is to be hea	ted by 21 C°	
	D. The amount of heat required is the	same in each of the three previous cases	
Q.169	One rpm is equal to0.1047	2 rad/sec	
	A. 2	B. 1.5	
	C. 2.5	D. 0.105	
0.170	The interference of green photon to		
Q.1.	A. Spectrum	B. Interference	
	C. Diffraction	D. No effect	
0.171		7 /	
Q.171	If displacement = 15 m and time t=		
	A. 12.5 m/s	B. 1.5 m/s	
	C. 2.5 m/s	D. 3m/s	
Q.172	Magnetic flux is maximum when ar		
	A. 0°	B. 90°	
	C. 120°	D. all of these	
Q.173	Ten complete waves pass through a	point in 2 seconds. If the wavelength is 20	
	cm, what is the speed of the wave?		
	A. I m/s	B. 10 cm/s	
	C. 2 m/s	D. 40 cm/s	
0.174	A glass block is immersed in a tank	which is filled with a liquid of higher	
Q.1		rom the liquid on one side of glass block at	
		. Which of the following statements are	
	true?	which of the following statements are	
		alone block bout the second of the count	
		ne glass block bending towards the normal	
	and partially reflected		
	B. light is partially transmitted into the glass block bending away from the normal		
	and partially reflected		
	C. light is completely transmitted into	the glass and did not reflect in to the liquid	

D. light is completely reflected back into the liquid

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B. 0.1   D. None of these	Q.175	Internal resistance of a battery is	ohm, if, E=10V, Vt=9V, I= 1A
Q.176   Maximum power delivered by battery is   A Pmax = E*At   C. Pmax = VIT   D. unlimited		A. 1	B. 0.1
A. P.max = E/4f C. P.max = VIT D. unlimited C. P.max = VIT D. unlimited A. 3 neutrons B. 3 protons C. 3 electrons D. None of these Q.178 A full wave rectifier is operating from 50 Hz mains. Fundamental frequency of ripple will be A. 100 Hz C. 50Hz D. 200Hz Q.179 The Lenz's law refers to A. Induced current C. Motional emf D. All of these Q.180 The fast-moving electrons stopped by a heavy metallic target in an evacuated glass tube, give rise to the production of: A. α- particles C. Laser D. β- particles C. Laser D. β- particles C. costed D. is costing Q.181 It me a lot of money. A. costs C. costed D. is costing Q.182 Annie and her brothers A. is D. Have Q.183 My father often here. A. Come C. Come D. Coming Q.184 Dan a lot of friends, A. have C. is having D. having Q.185 We shall there for a week. A. be going C. has going D. been going Q.186 The gardner will have the flowers. A plucked C. plucks D. none Q.187 bewildered A. Confused C. Stunned Q.188 Choose the correct sentence. A. However, it didn't take long for others to jump on board. B. However it didn't take long for others to jump on board. C. However, it didn't take long for others to jump on board. C. However, it didn't take long for others to jump on board. C. However, it didn't take long for others to jump on board. C. However, it didn't take long for others to jump on board.		C. 0.01	D. None of these
C. P.max = VIT D. unlimited Q.177 The total mass of protium deuterium and tritium is than three H atoms	Q.176	Maximum power delivered by battery i	s
Q.177 The total mass of protium deuterium and tritium is than three H atoms 3 neutrons B. 3 protons C. 3 electrons D. None of these Q.178 A full wave rectifier is operating from 50 Hz mains. Fundamental frequency of ripple will be B. 25Hz C. 50Hz D. 200Hz Q.179 The Lenz's law refers to A. Induced current B. Induced potential C. Motional emf D. All of these Q.180 The fast-moving electrons stopped by a heavy metallic target in an evacuated glass tube, give rise to the production of:		$A. P_{max} = E^2/4r$	B. $P_{\text{max}} = 4rE^2$
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Q.189	The captain, along with his team, are p	ractising very hard for the
	A	ВС
	forthcoming matches.	
	D	
	A. The captain, along with his team	<ul> <li>B. Are practising very hard</li> </ul>
	C. For the	D. Forthcoming matches.
Q.190	We have been knowing each other since	e we were children.
	A B C	D
	A. We have	B. Been knowing
	C. Each other	D. Since we were children
Q.191	I am in London this Summer, I	English.
	A. learn	B. learns
	C. am learning	D. learning
Q.192	Although he studied hard, he couldn't	succeed getting a high
	score in his test.	41
	A. in	B. on
	C. at	D. to
0.193	Who is	
	A. whos	B. whose
	C. who's	D. whos'
0.194	A really sophisticated person would ne	
	think that he is always right.	
	A. Reverent	B. Naive
	C. Articulate	D. Humble
0.195	Choose the correct sentence.	
<b>Q</b>	A. I don't like this one bit said Jamil.	
	B. "I don't like this one bit," said Jamil.	
	C. "I don't like this one bit?" said jamil.	
	D. I don't like this one bit, said Jamil.	*/
0.196	The robber broke into the house and	(tie) the lone occupant
	with ropes.	
	A. tied	B. ties
	C. tie	D. tying
0.197	The dog sprang him.	
		B. upon
	A. on	B. upon D. over
O.198	A. on C. in	D. over
Q.198	A. on C. in Everyone who was injured in the accid	D. over
Q.198	A. on C. in Everyone who was injured in the accid A B	D. over ent was taken to the hospital C D
Q.198	A. on C. in  Everyone who was injured in the accident A  A  B  A. Everyone who was injured	D. over  ent was taken to the hospital  C D  B. in the accident
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## LOGICAL REASONING

#### O.201 Statement:

- I. The school authority has asked the FSc students to attend special classes to be conducted on Sundays.
- II. The parents of the FSc students have withdrawn their wards from attending private tuitions conducted on Sundays.

#### A. Statement I is the cause and statement II is its effect.

- B. Statement II is the cause and statement I is its effect
- C. Both the statements I and II are independent causes
- D. Both the statements I and II are effects of some common cause

#### O.202 Find the different one

A. Mother B. Sister
C. Maid D. Aunt

#### Q.203 Statement

I. In a specific area of a country an acute famine have appeared COURSE OF ACTION:

I. Major facilities of water and food should be provided straight away in that area. II. Financial support should be given to bothered individuals to the from the Government.

A. Both of them follows

B. None of them follows

C. Only I follow

D. Only II follows

Q.204 From the following which word does not belong to the others

A. Index

B. Book

C. Glossary

D. Chapter

- Q.205 Four people were witnessed as assaulted at an incident. Each of them have their own description of the scene. Which one will be probably right?
  - A. He was average height, thin, and middle aged.

#### B. He was tall, thin, and middle aged

- C. He was tall, thin and young
- D. He was tall, of average weight, and middle aged.

#### Q.206 STATEMENTS:

- I. The dialogue between Jinnah and Gandhi failed.
- II. Indian National Congress and Muslim League tried to join hands, so they will be united.
- A. Statement I is the cause and statement II is its effect.
- B. Statement II is the cause and statement I is its effect.
- C. Both statements I and II are independent causes

#### D. Both statements I and II are the effects of independent cause.

#### O.207 STATEMENT:

- An interior minister has been found as the owner of assets more than the stated income.
- II. The prime minister has ordered all the ministers to unveil their assets.
- A. Statement I is the cause and statement II is its effect.
- B. Statement II is the cause and statement I is its effect.
- C. Both statements I and II are independent causes

### D. Both statements I and II are the effects of independent cause.

Q.208 Statements:  $-A > B, B \ge C, C < D$ 

Conclusions (I) A > C (II) A = C

A. Only I is true

B. Only II is true

C. Either I or II true

D. Neither I nor II is true

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#### Q.209 Statement:

The Management of School M has decided to give free breakfast from next academic year to all the students in its primary section through its canteen even though they will not get any government grant.

Courses of Action

- The school will have to admit many poor students who will seek admission for the next academic year.
- II. The canteen facilities and utensils have to be checked and new purchases to be made to equip it properly.
- III. Funds will have to be raised to support the scheme for years to come.

A. Only II and III follows

B. Only III and I follow

C. Only I and II follow

D. Only I follows

### Q.210 Complete the series A2, B4, C8, D16, E?



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