# 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 bonded 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 transi	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
	A. Higher binding energies	B. Strong metallic bonding		
	C. Hardness	D. All of these		
Q.5				
Q.0	The smallest part of the crystal lattice has 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 coppe			
2.0	A. 63.345amu	B. 63.455amu		
	C. 63.55 amu	D. 63.456amu		
Q.7	Current in electrolysis is carried through			
Q.,	A. Free electrons	B. Positive Ions		
	C. Negative Ions	D. Both B and C		
Q.8	The substance that is attached to the enzyme at specific place and converted			
4.0	into product is called as?			
	A. Co-factor	B. Iso-zyme		
	C. Active site	D. Substrate		
Q.9	How carboxylic acid are formed from alcohol?			
4.5	A. Hydrolysis	B. Reduction		
	C. Oxidation	D. protonation		
Q.10	Energy for the endothermic reaction			
~	A. Positive	B. Negative		
	C. 0	D. Neither positive nor negative		
0.11	Which alkyl halide give SN <sub>2</sub> reactions?			
V.11	A. Secondary	B. Primary		
	C. Tertiary	D. All of these		
0.12	In which of the following water eva			
Q.12	A. Cup	B. Saucepan		
	C. Glass	D. Small bowl		
0.13	Free radial reactions take place in			
Q.13	A. Heat	B. Sun light		
0.14	C. Catalyst D. Oxygen Which type of bonds are break during cracking?			
Q.14	A. C-C	B. C-H		
	C. Both C-C and C-H	D. C-O		
0.15	What is the common name of the c			
10.00		PAGE 1 OF 17		

	A. Chloropentane	B. n-Chloropentane		
	C. n-pentyl chloride	D. 1-chloropentane		
Q.16	SN1 reactions have which of the fo	llowing specie formed and consumed in the		
	reaction ?			
	A. Transition state	B. Intermediate		
	C. Carbanion	D. Carbene		
Q.17	Which ion will have a maximum v			
	A. A1 <sup>+3</sup>	B. Cs+		
	C. Ba <sup>+</sup>	D. Mg <sup>+2</sup>		
Q.18		ised to prepare Ethylene glycol from		
Qui	ethene?			
	A. Dehydration	B. Hydroxylation		
	C. Hydration	D. Luca's test		
Q.19	- NAMES NOT SHOW THE PARTY OF T	aving group in nucleophilic substitution		
Q.17	reactions?	aving group in nucleophine substitution		
	A. Cl	B. Br		
		A STATE OF THE STA		
0.20	C. I	DOH		
Q.20	By increasing which of the following			
	A. Atomic radius	B. Ionization energy		
	C. Ionic radius	D. Hydration energy		
Q.21	[18] 아이들 아이들 이번 10 전 10			
	A. Coal tar	B. Coke		
	C. Coal gas	D. All of above		
Q.22	Which of the following condition is			
	A. Pressure	B. Volume		
	C. Temperature	D. All of these		
Q.23	The shielding effect is also called			
	A. Zee effect	B. screening effect		
	C. negative effect	D. reducing effect		
Q.24	The reactions of carboxylic acids v	vhich involve H atom removal of OH group		
	form as major products in	all reactions?		
	A. Esters	B. Nitriles		
	C. Ketones	D. Salts		
Q.25	Which of the following is most solu	able in water?		
	A. Ethanoic acid	B. Pentanoic acid		
	C. Hexanoic acid	D. Butanoic acid		
Q.26	Which of the following is produced by heating of bones?			
	A. Gelatine	B. Cheese		
	C. Albumin	D. Gelly		
Q.27	Different kind of atoms of same ele	ement are called isotope having different		
13.70	but sameproperties			
	A. physical, atomic	B. physical, chemical		
	C. chemical, physical	D. chemical, atomic		
Q.28	- 111 Fig. 1. 17 17 17 17 17 17 17 17 17 17 17 17 17			
2.20	chemical change is called			
	A. Extent of a Reaction	B. Order of a Reaction		
	C. Specific rate of a reaction	D. Enthalpy of reaction		
Q.29	Lattice Points are also called	D. Lindingly of reaction		
Q.29		B. crystal lattice		
	A. space lattice C. lattice sites	D. Lattice location		
	C. lattice sites	D. Lattice location		

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mercury facing the vapors of a liquid isdue to pressure on surface of		
Organic compounds in which tetravalency of carbon atom is satisfied are		
d due to increase		
trons		
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	C 1 - 4	D	
0 45	C. both	D. none	
Q.45		es 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		
	A. Pyrrole	B. Furan	
	C. Thiophene	D. All	
Q.47		ple of electrophilic attack on alcohols?	
	A. $C_2H_5OH + CH_3COOH \rightarrow H_2SI_4$		
	B. $2C_2H_5OH + 2Na \rightarrow 2CH_5ONa + H_2$		
	C. $C_2S_5OH + HCL \rightarrow Zncl_2 C_2l$	H <sub>5</sub> CL + H2O	
	D. Both a and b		
Q.48	Drawing a graph between con	centration change with time gives a	
	A. Straight line	B. parabola	
	C. Curve	D. Scattered graph	
Q.49	18g of water contains	atoms of hydrogen	
	A. 6.022×10 <sup>23</sup>	B. 3×6.022×10 <sup>23</sup>	
	C. 2×6.022×10 <sup>23</sup>	D. 4×6. 22 ×10 <sup>23</sup>	
Q.50	Which of the following compe	te with each other?	
	A. E1, E2	B. E <sub>1</sub> , S <sub>2</sub>	
	C. E2,S1	D. E <sub>2</sub> ,S <sub>2</sub>	
Q.51	Friedrich prepared UREA fro	m	
	A. Amino Acids	B. Ammonium carbonate	
	C. Ammonium cyanate	D. xanthin	
Q.52	Which of the following family	is linked with plant ashes?	
	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 manufacturi	ng of	
0.7:	A. Buttons & buckles	B. Tanning of leather	
	C. Gelatin	D. Bakery goods	
Q.55	According to Avogadro's law,	.899 g of 1dm3 H2 and 1.4384 g of 1 dm3 O2	
	have number of molecules		
	A. Same	B. Different	
	C. H <sub>2</sub> has more	D. O <sub>2</sub> has more	
Q.56		ninders in calculating the heat of formation of	
150	A. CCl <sub>4</sub>	B. O <sub>3</sub>	
	C. CO	D. C	
		BIOLOGY	
Q.57		e archenteron as outpouching is?	
	A. Pseudocoelom	B. Schizocoelom	
	C. Enterocoelom	D. both a and b	
Q.58	Enzymes work by which of the		
	A. increasing the activation ener		
	B. reducing the activation energ		
	C. making exergonic reactions endergonic		
	D. making endergonic reactions		
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Q.59	Ribosomes combined with mRNA are called?		
	A. lysosome	B. nucleosome	
	C. polysome	D. polosome	
Q.60	The upward movement of sap b	y the xylem is:	
	A. ascent of sap	B. plasmolysis	
	C. deplasmolysis	D. guttation	
Q.61	Photosystem II has molecules w	hich absorbs maximum light of?	
	A. 680 nm	B. 100 nm	
	C. 700 nm	D. 670nm	
Q.62	What are the subunits of Capsio	ds?	
	A. Capsomeres	B. Flagella	
	C. Hyphae	D. Septa	
Q.63	An enzyme which requires a biological change in order to become active is		
	called?		
	A. transferase	B. zymogen	
	C. hydrogenase	D. trypsin	
Q.64	When two or more clearly diffe	rent phenotypes exists in same population of	
	species, the phenomenon is calle	ed?	
	A. replication	B. polymorphism	
	C. gene linkage	D. gene expression	
Q.65	Which of the following sections	of a sarcomere does not shorten during	
	contraction?		
	A. I band	B. H zone	
	C. A band	D. none of these	
Q.66	The radial symmetry is found in the animals of which of the following?		
	A. Protozoa	B. Porifera	
	C. Cnidaria	D. All of these	
Q.67	When resources gets scarce, the population growth?		
	A. becomes fast	B. slows down	
	C. remains same	D. none of these	
Q.68	According to Ivanovski what ar	e soluble living germs	
	A. Bacteria	B. Viruses	
	C. Fungi	D. Both A and B	
Q.69	If both the alleles are same with	respect to genes then they are called?	
	A. heterozygous	B. unicellular	
	C. homozygous	D. none of these	
Q.70	The part of chloroplast where C	CO2 is fixed to manufacture sugar is?	
	A. stroma	B. grana	
	C. thylakoid	D. outer membrane	
Q.71	It is most energy rich compound	d	
	A. FADH <sub>2</sub>	B. ATP	
	C. NADH	D. GTP	
Q.72	A single motor neuron may inne	ervate as few as 3-5 fibers in muscles of:	
848080	A. upper arms	B. legs	
	C. eyes	D. heart	
Q.73	Aquatic arthropods belonging t	o this class breathe through gills.	
(6.5)	A. Insects	B. Arachnids	
	C. Crustaceans	D. Arachnids and crustaceans	
Q.74	Which cells secrete flexible, elas	tic, non-living matrix collagen that surrounds	
	the chondrocytes?		

A. Osteocytes B. Osteoclasts D. Osteoblasts C. chondrocytes Q.75 Salamander belongs to which of the following class? B. aves A. pisces D. amphibians C. reptiles 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? A. Identical to the parents B. Identical if mutations do not occur. C. Non identical to the parents D. both a and b Q.79 Most reflex arcs are: B. Polysynaptic reflex A. Monosynaptic 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? A. Sphingolipids B. Phospholipids C. Phosphodiester D. none of these Q.81 The wings of a bird and the wings of a beetle are considered? A. taxonomic B. phylogenetic 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 A. to give cells rigidity B. to give specific shape 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 Q.86 Carotenoids perform protective function in which of the following organism? A. Animal B. Plants C. Both D. None of these Q.87 Nutrition to egg in ovary is provided by which of the following? B. milk cells A. germ 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 D. None of these C. neuron somas

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#### A. Proteins B. Glycoproteins D. All of the above C. lipids and proteins 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? A. Acromegaly B. Diabetes mellitus C. Dwarfism D. Diabetes insipidus Q.93 Which of these is a eucoelomate? A. Earthworm B. Jelly fish C. Sycon D. Planaria 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 D. Chromatid C. Chromatin body Q.98 Breathing is considered as a: A. Chemical process B. Biochemical 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.100 In a typical menstrual cycle of 28 days, what is the most likely fertile period? 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 vacuole is known as? A. Tonoplast B. Elaioplast C. Cytoplast D. Amyloplast Q.102 The infection of lungs is called A. emphysema B. asthma D. bronchitis C. pneumonia 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 Q.104 Which type of bond is not form in maintaining the tertiary structure of proteins?

Q.90 What is the viral envelope is composed of?

	A. Ionic	B. Hydrogen	
	C. Disulphide	D. Hydrophobic	
Q.105	The semi solid mass in stomach is	known as:	
	A. Bolus	B. Chyme	
	C. Serum	D. Food	
Q.106	Vertebrates belong to phylum che	ordata because:	
	A. They have a vertebral column.	B. The brain is enclosed by the skull.	
	C. The embryos have gills.		
	D. The body develops from three germinal layers.		
Q.107	Which statement describes an incorrect difference between a plant cell and a		
	bacterial cell?		
	A. Bacterial cell has 70S ribosomes	whereas a plant cell has 80S ribosomes.	
	B. Bacterial cell divides by binary f	ission whereas a plant cell divides by mitosis.	
	C. Bacterial cells do not have a nuclear membrane whereas plant cells do.		
	D. None of the above.	3(1)	
Q.108	What would be the resolving pow	er of the objective length in a microscope if	
	the eyepiece is 10X and total mag	nification is 40X?	
	A. 4	B. 10	
	C. 40	D. 400	
Q.109	How much net gain of G3P is obta	ained after one calvin cycle?	
	A. 3	B. 6	
	C. 2	D. 1	
Q.110	Two populations of the same species over time grow distant from one		
	another. At what point will these two populations be considered different		
	species?		
	A. When the populations begin to eat 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	interbreed	
Q.111	Which of the following is the name	e of the modified endoplasmic reticulum	
	found in muscle cells?		
	A. t-tubule	B. Sarcomere	
	C. Myoplasmic reticulum	<ul> <li>D. Sarcoplasmic reticulum</li> </ul>	
Q.112	Carbohydrate catabolism is conce	erned with the fate of	
	A. ATP	B. Glucose	
	C. Amino acid	D. all of these	
Q.113	The scrotum is responsible for wh	nich of the following in the male	
	reproductive system?		
	A. Synthesis of sperm	B. Lubrication	
	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 genera	ation The number of red eyed males were:	
	A. 2059	B. 2459	
	C. 782	D. 1101	
Q.115	Human embryo remains enclosed		
	A. Amniotic sac	B. Amnion	
	C. Chorion	D. Allantois	
Q.116	Cholesterol is		
	A. Animal sterol	B. C <sub>27</sub> H <sub>46</sub> O	

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	C. 5 methyl groups	D. All of these	
Q.117	Which type of bonds are never for	ormed 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 car	n produce complete embryo the cleavage will	
	be	e programme de la company de la compa	
	A. Spiral and determinate	B. Spiral and indeterminate	
	C. Radial and determinate	D. Radial and indeterminate	
Q.119	Primordial soup is a set of hypothetical conditions on ancient earth first		
	proposed by?		
	A. Dmitri Ivanovsky	B. Dmitry Anuchin	
	C. Nikolay Shatsky	D. Alexander Oparin	
O.120	[19] 1. [20] 10[10] 10[20] 10[20] 10[20] 10[20] 10[20]	for which color of light, therefore promote	
	flowering in long day plants?	//( <b>*</b>	
	A. Red	B. Blue	
	C. Green	D. White	
0.121	Which of these is involved in coo	and the second s	
4.1.2.	A. Cerebellum	B. Cerebrum	
	C. Medulla	D. Pons	
O 122		a template for making double stranded DNA	
Q.1.22	A. DNA polymerase	B. DNA ligase	
	C. Reverse transcriptase	D. All of these	
0.123	These are largest animal viruses	D. All of these	
Q.123	A. HIV	B. Poxviruses	
	C. Covid-19	D. HBV	
0.124	True bacteria are termed as	D. HBV	
Q.124	A. Eubacteria	B. Archacbacteria	
		D. None of above	
	C. Cyanobacteria	THE PROPERTY OF THE PARTY OF TH	
		HYSICS	
Q.125	Ohm's Law is applicable only wh	en 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	B. 15N	
	C. 20N	D. 30N	
Q.127	Which of the following are comp	onent of half wave rectifier?	
	A. Transformer	B. Load resistance	
	C. Power supply	D. All of the above	
Q.128	Which of the following is not an	assumption of the kinetic model of an ideal	
	gas?		
	A. The size of the molecules is mu	ch smaller than the separation between	
	molecules		
	B. Molecules suffer negligible mor	nentum change during wall collisions.	
	보다가 하는 사람이 되었다. 맛이 되었다면 하는 사람들이 되었다면 하는 사람들이 되었다.	each other except during a collision.	
	D. The gas molecules are in random motion and may change their direction of		
	motion after every collision	namer en enten prominina en el enten a mariera en a en el activa en el enten el activa en el enten el enten el	
0.129		object after one complete revolution is:	

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	A. 0 radian	B. pi radian
	C. 2pi radian	D. (1/3)*pi radian
Q.130	Coulomb force is a	energy and the second second second
	A. Short range force	B. Long range force
	C. Medium range force	D. None of these
Q.131	Motional emf induced in a coil is d	lependent on
0.541.0000	A. Magnetic field	B. Orientation
	C. Length	D. All of these
0.132	Work function depends on:	
	A. Metals only	B. Nature of surface only
	C. Both metals and nature of surface	
		93 SE ##*03Y0075 GE####################################
O.133	Formula for Power is	
	A. P=IV	B. P=V/I
	C. p= V+I	D. p=VQ
0.134		s are emitted when unstable nuclei
200000	그렇게 되는데 이번 나를 하면 하는데 하는데 하는데 그는데 하는데 하는데 하는데 하는데 하다 되었다.	of the following is not one of them?
	A. alpha	B. beta
	C. gamma	D. delta
0.135	Radiations are classified by its	nature
	A. Ionizing	B. Non ionizing
	C. Both a and b	D. Radiations cannot be classified
0.136	In which rectifier ripple factor is l	
2000	A. full wave	B. half wave
	C. both A and B	D. none of them
0.137	AND A CAMPACAM DELIVERATION OF THE STATE OF	a magnetic field of B at 45° while moving
	with 2 m/s is	•
	A. 2√2 eB	B. 4eB
	C. 2eB	D. eB
Q.138	In a lamp load when more than on	e 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 orbit	al 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/q	B. E=3F/2q
	C. E=F/3q	D. None of them
Q.141	A fixed mass of an ideal gas is con-	tained in a cylinder at constant
	temperature. Now the pressure of	the gas is decreased. What happened to the
	molecules of gas?	17 V 1.8.5
	A. their mean square speed decrease	S
	B. Number of collision between mol	ecules and walls of container decreased
	C. The force of attraction between the	nem 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

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Q.143	Electric field lines due to a posit	Electric field lines due to a positive charge are:		
	A. Always horizontal	B. Always vertical		
	C. Radially towards the charge	<ul> <li>D. Radially away from the charge</li> </ul>		
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 un	it of power?		
(3)	A. horse power	B. kilowatt		
	C. kWh	D. Nm/s		
0.146	Which radiation is used in smoke detectors?			
8	A. alpha	B. beta		
	C. gamma	D. all of these		
Q.147	Step up transformer have	turns in secondary coll		
	A. more	B. less		
	C. equal	D. zero		
Q.148	In a Young's double-slit experin	nent, fringes are very close to each other.		
	How can we increase the distance	ce 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			
0.149				
Z.1.12	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		
O 150	Wave nature of light is proved b			
Q.150	A. Polarisation	B. Black body radiation		
	C. Compton 's effect	D. Photoelectric effect		
0 151	Displacement of sun with respec			
Q.151	Charles of the Control of the Contro	The state of the s		
	A. r	B. 2πr		
	C. 2r	D. r <sup>2</sup>		
Q.152	Instantaneous velocity is	n		
	A. Always positive	B. Always negative		
20023	C. Positive and negative	D. Not enough info		
Q.153	If a rotating body is moving anti-clockwise, the direction of angular velocity			
	is	9 PM - 19 8 - 5 W		
	A. Towards the centre	B. Along the linear velocity		
	<ul> <li>C. Away from the centre</li> </ul>			
	D. Perpendicular to both radius and linear velocity			
Q.154	Two forces of 5 N and 15 N are working on a body in opposite direction. If			
	body displaced by 5 m in directi	on of net force, what will be the work done		
	by net force			
	A. 50 J	B 50 j		
	C. 25 J	D. 100 J		
Q.155	A force which acts on an object	moving in a circle and is directed towards the		
	center of the circle is called			
	A. Bending Force	B. Centripetal Force		
	C. Centrifugal force	D. None of these		
0.156	In electron microscope image fo	rmed is		

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C. 1D D. Any of these Q.157 Beats can be used to find: A. Speed B. Frequency D. Wavelength C. Amplitude Q.158 Charged body attracts uncharged body by \_\_\_\_induction A. Electrostatic B. Magnetic C. Both A and B D. None of these Q.159 The basic purpose of filter is to A. Minimize variation in ac signal B. Suppress harmonics in rectified output C. Remove ripples from the rectified output D. Stabilize dc output voltage Q.160 In a simple pendulum work done by the tension force is A. Positive B. Negative C. Zero D. None of these Q.161 Which metal is used to detect radioactivity? A. Heavy metal B. Mercury metal C. Hydrogen gas D. None of these Q.162 Minimum energy required for pair production is: A. 939 MeV B. 942 MeV C. 1.02MeV D. 0.511MeV Q.163 Which of this is constant in isochoric process? A. Total heat B. Work done C. Entropy D. Internal energy Q.164 A gas expands from V1 to V2 at pressure P. Work done is A. P/(V2-V1) B. (P2-P1) V C.  $P(V_1V_2/(V_2-V_1))$ D. P(V2-V1) Q.165 The pendulum of a certain pendulum clock is made of brass. When the temperature increases, what happens to the period of the clock? B. It decreases A. It increases C. It remains the same 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? A. Sum of the number of antinodes and the number of nodes is always even B. Wavelength = length string / number of nodes C. The shape of the string at any instant shows a symmetry about the midpoint of the string D. Frequency = number of nodes × fundamental frequency Q.167 In a stationary wave, the distance between a node and consecutive antinode is: A. A quarter of wavelength B. 3/4 of wavelength C. One wavelength D. Half of wavelength Q.168 Which of the following cases (if any) requires the greatest amount of heat? In each case the material is the same. A. 1.5 kg of the material is to be heated by 7.0 C° B. 3.0 kg of the material is to be heated by 3.5 C° C. 0.50 kg of the material is to be heated by 21 C°

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B. 3D

A. 2D

O 160	D. The unionit of hear req	uired is the same in each of the three previous cases	
Q.109	One rpm is equal to	0.10472 rad/sec	
	A. 2	B. 1.5	
	C. 2.5	D. 0.105	
Q.170	The interference of green	photon to red photon will cause	
	A. Spectrum	B. Interference	
	C. Diffraction	D. No effect	
Q.171	If displacement = 15 m a	nd time t= 10 seconds, then average velocity is	
	A. 12.5 m/s	B. 1.5 m/s	
	C. 2.5 m/s	D. 3m/s	
Q.172	Magnetic flux is maximu	m when angle is	
	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. 1 m/s	B. 10 cm/s	
	C. 2 m/s	D. 40 cm/s	
Q.174	A glass block is immerse	d in a tank which is filled with a liquid of higher	
	refractive index. Light is incident from the liquid on one side of glass block at		
	an angle greater than critical angle. Which of the following statements are		
	true?		
	A. light is partially transmitted into the 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 trans	smitted into the glass and did not reflect in to the liquid	
	D. light is completely refle	ected back into the liquid	
0.175	Internal resistance of a b	attery is ohm, if, E=10V, Vt=9V, I= 1A	
Q.175		B. 0.1	
Q.175	A. 1	D. 0.1	
Q.175	A. 1 C. 0.01	D. None of these	
	7000	D. None of these	
	C. 0.01	D. None of these	
	C. 0.01 Maximum power deliver	D. None of these	
Q.176	C. 0.01 Maximum power deliver A. $P_{max} = E2/4r$ C. $P_{max} = VIT$	D. None of these by battery is $B. \ P_{max} = 4rE^2$	
Q.176	C. 0.01  Maximum power deliver A. P <sub>max</sub> = E2/4r C. P <sub>max</sub> = VIT  The total mass of protium A. 3 neutrons	D. None of these B. $P_{max} = 4rE^2$ D. unlimited	
Q.176	C. 0.01  Maximum power deliver A. $P_{max} = E2/4r$ C. $P_{max} = VIT$ The total mass of protium	D. None of these  B. P <sub>max</sub> = 4rE^2 D. unlimited n deuterium and tritium is than three H atoms	
Q.176 Q.177	C. 0.01  Maximum power deliver A. P <sub>max</sub> = E2/4r C. P <sub>max</sub> = VIT  The total mass of protium A. 3 neutrons C. 3 electrons	D. None of these  B. P <sub>max</sub> = 4rE^2 D. unlimited n deuterium and tritium is than three H atoms B. 3 protons	
Q.176 Q.177	C. 0.01  Maximum power deliver A. P <sub>max</sub> = E2/4r C. P <sub>max</sub> = VIT  The total mass of protium A. 3 neutrons C. 3 electrons	D. None of these  B. P <sub>max</sub> = 4rE^2 D. unlimited n deuterium and tritium is than three H atoms B. 3 protons D. None of these	
Q.176 Q.177	C. 0.01  Maximum power deliver A. P <sub>max</sub> = E2/4r C. P <sub>max</sub> = VIT  The total mass of protium A. 3 neutrons C. 3 electrons A full wave rectifier is on	D. None of these  B. P <sub>max</sub> = 4rE^2 D. unlimited n deuterium and tritium is than three H atoms B. 3 protons D. None of these	
Q.176 Q.177	C. 0.01  Maximum power deliver A. P <sub>max</sub> = E2/4r C. P <sub>max</sub> = VIT  The total mass of protium A. 3 neutrons C. 3 electrons A full wave rectifier is open of ripple will be	D. None of these  B. P <sub>max</sub> = 4rE^2 D. unlimited n deuterium and tritium is than three H atoms B. 3 protons D. None of these perating from 50 Hz mains. Fundamental frequency	
Q.176 Q.177 Q.178	C. 0.01  Maximum power deliver A. P <sub>max</sub> = E2/4r C. P <sub>max</sub> = VIT  The total mass of protium A. 3 neutrons C. 3 electrons A full wave rectifier is open of ripple will be A. 100 Hz	D. None of these  B. P <sub>max</sub> = 4rE^2 D. unlimited n deuterium and tritium is than three H atoms B. 3 protons D. None of these perating from 50 Hz mains. Fundamental frequency B. 25Hz	
Q.176 Q.177 Q.178	C. 0.01  Maximum power deliver A. P <sub>max</sub> = E2/4r C. P <sub>max</sub> = VIT  The total mass of protiun A. 3 neutrons C. 3 electrons A full wave rectifier is open of ripple will be A. 100 Hz C. 50Hz	D. None of these  B. P <sub>max</sub> = 4rE^2 D. unlimited n deuterium and tritium is than three H atoms B. 3 protons D. None of these perating from 50 Hz mains. Fundamental frequency B. 25Hz	
Q.176 Q.177 Q.178	C. 0.01  Maximum power deliver A. P <sub>max</sub> = E2/4r C. P <sub>max</sub> = VIT  The total mass of protium A. 3 neutrons C. 3 electrons A full wave rectifier is open of ripple will be A. 100 Hz C. 50Hz  The Lenz's law refers to	D. None of these  B. P <sub>max</sub> = 4rE^2 D. unlimited In deuterium and tritium is than three H atoms B. 3 protons D. None of these Derating from 50 Hz mains. Fundamental frequency B. 25Hz D. 200Hz	
Q.176 Q.177 Q.178 Q.179	C. 0.01  Maximum power deliver A. P <sub>max</sub> = E2/4r C. P <sub>max</sub> = VIT  The total mass of protium A. 3 neutrons C. 3 electrons A full wave rectifier is open of ripple will be A. 100 Hz C. 50Hz  The Lenz's law refers to A. Induced current C. Motional emf	D. None of these  B. P <sub>max</sub> = 4rE^2 D. unlimited In deuterium and tritium is than three H atoms B. 3 protons D. None of these Derating from 50 Hz mains. Fundamental frequency B. 25Hz D. 200Hz B. Induced potential D. All of these	
Q.176 Q.177 Q.178 Q.179	C. 0.01  Maximum power deliver A. P <sub>max</sub> = E2/4r C. P <sub>max</sub> = VIT  The total mass of protium A. 3 neutrons C. 3 electrons A full wave rectifier is open of ripple will be A. 100 Hz C. 50Hz  The Lenz's law refers to A. Induced current C. Motional emf	D. None of these  B. P <sub>max</sub> = 4rE^2 D. unlimited In deuterium and tritium is than three H atoms B. 3 protons D. None of these Induced potential D. 200Hz  B. Induced potential D. All of these Is stopped by a heavy metallic target in an evacuated	
Q.176 Q.177 Q.178 Q.179	C. 0.01  Maximum power deliver A. P <sub>max</sub> = E2/4r C. P <sub>max</sub> = VIT  The total mass of protion A. 3 neutrons C. 3 electrons A full wave rectifier is op of ripple will be A. 100 Hz C. 50Hz  The Lenz's law refers to A. Induced current C. Motional emf The fast-moving electron	D. None of these  B. P <sub>max</sub> = 4rE^2 D. unlimited In deuterium and tritium is than three H atoms B. 3 protons D. None of these Induced potential D. 200Hz  B. Induced potential D. All of these Is stopped by a heavy metallic target in an evacuated	
Q.176 Q.177 Q.178 Q.179	C. 0.01  Maximum power deliver A. P <sub>max</sub> = E2/4r C. P <sub>max</sub> = VIT  The total mass of protium A. 3 neutrons C. 3 electrons A full wave rectifier is op of ripple will be A. 100 Hz C. 50Hz  The Lenz's law refers to A. Induced current C. Motional emf The fast-moving electron glass tube, give rise to the	D. None of these  B. P <sub>max</sub> = 4rE^2 D. unlimited In deuterium and tritium is than three H atoms B. 3 protons D. None of these I berating from 50 Hz mains. Fundamental frequency B. 25Hz D. 200Hz B. Induced potential D. All of these I set stopped by a heavy metallic target in an evacuated be production of:	

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	A. costs	B. cost		
	C. costed	D. is costing		
Q.182	Annie and her brothers	at school.		
	A. is	B. Are		
	C. Are being	D. Have		
Q.183	My father often here.			
	A. Come	B. Came		
	C. Comes	D. Coming		
Q.184	Dan a lot of friends.			
	A. have	B. has		
	C. is having	D. having		
Q.185	We shall there for a week.			
	A. be going	B. has been gone		
	C. has going	D. been going		
Q.186	The gardner will have the flo	owers.		
	A. plucked	B. pluck		
	C. plucks	D. none		
Q.187	bewildered			
	A. Confused	B. Impressed		
	C. Stunned	D. Intrigued		
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 other			
	D. However, it didn't take long for other			
Q.189	The captain, along with his team, are			
	A	ВС		
	forthcoming matches.			
	D	V/		
	A. The captain, along with his team	B. Are practising very hard		
	C. For the	D. Forthcoming matches.		
O.190	We have been knowing each other sin			
	A B C	D		
	A. We have	B. Been knowing		
	C. Each other	D. Since we were children		
0.191	I am in London this Summer, I			
	A. learn	B. learns		
	C. am learning	D. learning		
Q.192		t succeed getting a high		
8	score in his test.			
	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 n			
2.174	think that he is always right.	enough to		
	A. Reverent	B. Naive		
	C. Articulate	D. Humble		
O 105	Choose the correct sentence.	D. Humore		
Q.193	Choose the correct sentence.			
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	A. I don't like this one bit said Jam	iil.		
	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 Jan	mil.		
Q.196	The robber broke into the house	and (tie) the lone occupant		
	with ropes.			
	A. tied	B. ties		
	C. tie	D. tying		
Q.197	The dog sprang him.			
	A. on	B. upon		
	C. in	D. over		
Q.198	Everyone who was injured in the accident was taken to the hospital			
	A B C D			
	A. Everyone who was injured	B. in the accident		
	C. was taken	D. to the hospital		
Q.199	Everyone done his or he	r homework.		
	A. has	B. have		
	C. had	D. none		
Q.200	G 233 207 4 2	lled hourglass		
	A. ana	B. anthe		
	C. anan	D. thean		
	103 COS. (2000.)	L REASONING		
		IL REASONING		
Q.201	Statement:			
	I. The school authority has asked	I the FSc students to attend special classes to		
	be conducted on Sundays.			
	II. The parents of the FSc studen	ts have withdrawn their wards from		
	attending private tuitions conduc	eted on Sundays.		
	A. Statement I is the cause and stat	ement II is its effect.		
	B. Statement II is the cause and sta	tement 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		
0.202	Find the different one			
	A. Mother	B. Sister		
	C. Maid	D. Aunt		
0.203	Statement	2 <del>-37-3-44</del> 5		
2.2	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		
	- NATION OF THE PARTY OF THE PA	[시민 전기 : [1] 조네 (인리 인정 : [1] 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
0 204	C. Only I follow D. Only II follows  From the following which word does not belong to the others			
Q.204				
	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	d middle aged.		

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- 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.

#### **Q.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

#### 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

- I. 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?

A. 32

B. 34

C. 36

D. 38