BEATS HIGHCARECLASS

CEE MODEL ENTRANCE EXAM

<u>(SET-3)</u>

Instructions:

- There are 200 multiple-choice questions, each having four choices of which only one choice is correct.
- Fill (●) the most appropriate one.

Date : 2081/09/13 (Dec 28) **Duration** : 3 hours **Time :** 10 A.M. – 1 P.M.

1.	Two stones are thrown If T_1 and T_2 be their re	n horizontally from the to spective time of flights, tl	p of a tower with velocit nen	ies 5m/s and 10 m/s respectively at same instant.	
	a) $T_1 = T_2$		b) T ₁ < T ₂		
2	c) $T_1 > T_2$ A body is moving with	h a constant speed V in a d	d) $T_1 \& T_2$ may or may vircle of radius r. Its angu	not be same lar acceleration is	
	n bouy is moving with	v	v		
	a) vr	b) $\frac{1}{r}$	c) $\frac{1}{r^2}$	d) zero	
3.	A block sliding initial	ly with a speed of 10 m/s	on a rough horizontal su	rface, comes to rest in a distance of 7.0m. What is	
	the coefficient of kine	tic friction between the bl	ock and the surface? [g =	10 m/s²]	
	a) 0.71	b) 0.81	c) 0.91	d) 0.62	
4.	Two balls of different	masses have the same kir	etic energy. The ball hav	ving greater momentum will be	
	a) lighter one		b) heavier one		
F	c) both having equal m	iomentum	d) nothing can be said	1012 m manualtingly. A source in a that there many in	
5.	ine distances of Nept	une and Saturn from the	sun are nearly 1013 and 1	1012 m respectively. Assuming that they move in	
	circular orbits, then p	$1) 10 \sqrt{10}$		J) 1000	
6	a) 10 A man turns on a rota	D) $10\sqrt{10}$	C) 100 r speed o He is helding	a) 1000	
0.	his arms he just drops	the two masses How will	l his angular speed chan	rwo equal masses at arm's length. with moving	
	a) It will be less than w	s the two masses. now wh	ii iiis aligulai speed chall	ge:	
	b) It will be more than	Ø			
	c) It will be remain equ	al to w			
	d) May be less, greater	or equal to a depending u	pon the quantity of masse	28	
7.	Two stretched membr	anes of area 2m ² and 3m ² a	are placed in a liquid at th	he same depth. The ratio of the pressure on them	
	is		1		
	a) 1 : 1	b) 2 : 3	c) $\sqrt{2}$: $\sqrt{3}$	d) 2 ² : 3 ²	
8.	If a bimetallic strip is	heated, it will		,	
	a) bends towards the n	netal with lower thermal ex	xpansion coefficient		
	b) bends towards the n	netal with higher thermal e	expansion coefficient		
	c) not bend at all				
0	d) twist itself into a hel	iX			
9.	Assuming no neat loss	ses, the neat released by the 0° C the ratio x ty is	ne condensation of x g of	steam at 100°C can be used to convert y g of ice	
	at 0 C into water at 10 a) $1 \cdot 1$	b) 1 · 2	$()1\cdot 3$	d) 3 · 1	
10.	In a given process on a	an ideal gas, $dW = 0$ and d	O < 0. What happens to t	the temperature of gas?	
201	a) Increases		b) Decreases		
	c) remains constant		d) first increases then d	lecreases	
11.	Newton's law of coolin	ng holds good only, if the	temperature difference b	between the body and its surrounding is	
	a) less than 10°C		b) more than 50°C		
	c) more than 100°C		d) more than 200°C		
12.	An open pipe is sudd	enly closed at one end w	ith the result that the fre	equency of third harmonic of the closed pipe is	
	round to be nigher by	100 Hz than the rundame	ntal frequency of the ope	en pipe. The fundamental frequency of the open	
	$p_1 p_2 n_3$	b) 300 Hz	c) 240Hz	d) 480 Hz	
13.	An observer moves to	wards a stationary source	e of sound, with a veloc	ity one-fifth the velocity of sound. What is the	
201	percentage increase in	apparent frequency?			
	a) Zero	b) 0.5%	c) 5%	d) 20%	
14.	Rays of light falls on a	a glass plate of refractive	index μ . If the angle betv	veen reflected and refracted rays is 90°, then the	
	angle of incidence is				
	a) $\sin^{-1}(u)$	b) $\cos^{-1}(u)$	c) $\tan^{-1}(\mu)$	d) $\tan^{-1}\left(\frac{1}{2}\right)$	
		ο) εσο (μ)		(μ)	
15.	One cannot see throug	sh fog because of		1)	
16	a) reflection	b) refraction	c) absorption	d) scattering	
10.	a) dispersion only	e fight fails off all actionia	b) deviation only	, then there is	
	c) deviation and disper	sion both	d) neither dispersion no	or deviation	
17.	The minimum distance	e between an object and i	ts real image formed by a	a thin convex lens of focal length f is	
	> 46	1) 0(n f	
	a) 4f	b) 2f	c) f	a) $\frac{1}{2}$	
18.	Choose the correct stat	tement:			
	b) The Brewster's angle is independent of the nature of the reflecting surface				
	d) The Browster's angle	e is airrerent for different w	avelength	flocting surface	
19	u) The Drewsler's alight depends on wavelength but not on the fidure of reflecting surface (9) A spherical drop of margury having a potential of 2 5V is obtained as a result of marging 125 droplets. The notertial of				
17.	constituent droplet we	ould be	or no v to obtained as a l	court of merging 120 uropicio. The potential of a	
	a) 1.0 V	b) 0.5 V	c) 0.2 V	d) 0.1 V	

20.	The rate of disintegration of a fixed quantity of a	a radioactive substance ca	an be increased by
	a) increasing the temperature	b) increasing the pressu	ire
01	c) chemical reaction	d) it is not possible	and compared in carios Milestic the environment
21.	An infinite number of capacitors of capacitances capacitance to this distribution of capacitors?	C, 2C, 4C, 8C, 16C, 32C,	are connected in series. What is the equivalent
	a) C b) $C/2$	c) 2C	d) 3C/2
22.	A piece of aluminium (Al) and Germanium (Ge)	are cooled from $I_1 k$ to I	₂ k. The resistance of
	a) Al decreases and that of Co increases	d) Al increases and that	t of Co. docrossos
22	A square conducting loop of side longth L carrie	u) Al increases and that	is field at the centre of the loop is
23.	a) independent of I	b) proportional to I	ic field at the centre of the loop is
	c) inversely proportional to L	d) linearly proportional	l to L
24.	The core of a transformer is laminated because	a) meany proportional	
	a) energy losses due to eddy currents may be mini	imized	
	b) the weight of the transformer may be reduced		
	c) rusting of the core may be prevented		
	d) ratio of voltage in primary and secondary may	be increased	
25.	A cell has emf 1.5V and internal resistance 0.5Ω	. If a current of 1A is del	livered through the cell, then terminal potential
	will be		
	a) 2V b) 1.5V	c) 1V	d) 0.5V
26.	Which of the following is most suitable for the c	ore of electromagnets?	
	a) Air b) Soft iron	c) Steel	d) Cu – Ni alloy
27.	A sphere is released on a smooth inclined plane	from the top. When it mo	oves down, its angular momentum is
	a) conserved about every point		
	b) conserved about the point of contact only		
	c) conserved about the centre of sphere only		
•	d) conserved about any point on a line parallel to	the inclined plane and pa	issing through the centre of the ball
28.	If g is same at a height h and at a depth d , then	\1 1	1
20	a) $K = 2d$ b) $d = 2h$	c) n = a	a) none
29.	A particle is executing SHW with amplitude A as	nd has maximum velocit	y v. its speed at displacement A/2 will be
	a) $\frac{\sqrt{3}}{2}$ V ₀ b) V ₀ $\sqrt{2}$	$c) V_0$	d) $\frac{V_0}{t}$
• •			
30.	An electric dipole, when held at 30° with respec	ct to a uniform electric fi	eld of 10^4 NC ⁻¹ experiences a torque of 9×10^{-26}
	Nm. Find dipole moment of the dipole. $(1 \times 10^{20} \text{ sm})$	a) 2.0×10^{-29} and	
01	a) 1.6×10^{-29} cm b) 1.8×10^{-29} cm	c) 2.0×10^{-29} cm	a) 2.2×10^{-29} cm
31.	I ne resistance of a wire is KS2. what will be its n	lew resistance if it is stre	tched to <i>n</i> times its original length?
	a) $\frac{n^2}{R}$ b) $\frac{K}{n^2}$	c) n ² R	d) none of these
22	If number of turns in moving soil galvenometer	haramas half than the d	flastion for the same surrent will become
32.	b) half	a) double	d) four times
22	a) same b) han	c) double	a) four times
55.	hannen?	currents in the same un	ection. If the loops are blought hear, what whi
	a) Current will increase in each loop		
	b) Current will decrease in each loop		
	c) Current will remain same in each loop		
	d) Current will increase in one and decrease in oth	ner	
34.	The peak value of an alternating emf E given	by $E = E_0 \cos \omega t$ is 10V	and frequency is 50Hz. At time t = $\frac{1}{600}$ S, the
	instantaneous value of emf is		
	a) 10V b) 5√3V	c) 5V	d) 1V
35.	Diamagnetic material in a magnetic field moves	,	,
	a) from stronger to the weaker parts of the field	b) from weaker to the s	tronger parts of the field
	c) perpendicular to the field	d) none of the above di	rection
36.	Which one of the following is evidence for the ex	xpansion of the universe	?
	a) Red shift	b) Blue shift	
	c) Birth of pulsars	d) Birth of Quasars	
37.	If Q, E and W denotes respectively the heat adde	d, change in internal ene	rgy and the work done in a closed cyclic process,
	then		
	a) $Q = 0$ b) $W = 0$	c) Q = W = 0	d) E = 0
38.	The temperature of an ideal gas is increased from	n 120K to 480K. If at 120K	the root mean square speed of the gas molecules
	15 V, at 480K it becomes	$\sim 17/2$	
	a) 4v b) 2v	c) V/2	u) v/4
39.	A thin prism of glass is placed in air and water	successively. If ${}^{a}\mu_{g} = \frac{3}{2}$	and ${}^{a}\mu_{w} = \frac{\pi}{3}$ then the deviation produced by the
	nrism for a small angle of incidence when placed	d in air and water are in f	the ratio
	a) 9:8 b) 4:3	c) 3 : 4	d) 4 : 1
	<i>uj 2.0</i>		~, - · ·

Achievers' Hub

40.	An X-ray tube operate	s at 18 kV. Find the maxin	num speed of electron str	tiking the target? $[m_e = 9 \times 10^{-31} \text{ kg, e} = 1.6 \times 10^{-31} \text{ kg}$		
	¹⁹ C]	b) $9 \times 107 m / c$	a) $7 \times 108 m / c$	$d) = \times 107 \text{m/s}$		
41.	A proton accelerated t	b) 8 × 10 ⁷ m/s hrough a potential V has d	e-Broglie wavelength λ. Τ	α 5 × 10 ⁷ m/s Then the de-Broglie wavelength of an α -particle.		
	when accelerated through the same potential V is					
	$\lambda \lambda$	$\frac{\lambda}{\lambda}$	$\lambda \lambda$	$\frac{\lambda}{\lambda}$		
	a) 2	$^{0}2\sqrt{2}$	c) ₈	$a)_4$		
42.	A pipe closed at one en	nd and open at the other w	vill give			
	a) all the harmonics		b) all even harmonics			
12	c) all odd harmonics	w reactor are used to	d) none of the harmonic	S		
43.	a) absorbs excess neutr	ir reactor are used to	b) absorbs alpha particle	٥		
	c) slow down the react	ion	d) speed up the electron			
44.	Bragg equation 2d sin	$\theta = n\lambda$ will have no solutio	on if			
	a) λ < 2d	b) $\lambda > 2d$	c) λ < d	d) $\lambda > d$		
45.	An X-ray tube is opera	ting at 15KV. The lower li	mit of the wavelength of	X-rays produced is		
	a) 0.82×10^{-7} m	b) 0.82 × 10 ⁻⁸ m	c) 0.82 × 10 ⁻¹⁰ m	d) 0.82×10^{-13} m		
46.	Barrier potential differ	rence is the potential diffe	h) deplotion loss			
	a) terminals of a cell		d) and of a conductor			
47.	A radioactive element	s has half life period of 800) vears. After 6400 vears.	the amount that would have been decreased to		
	<u>_</u> 1	255	<u>1</u>	1		
	a) $\frac{16}{16}$	b) $\frac{1}{256}$	c) $\frac{1}{256}$	d) $\overline{4}$		
48.	According to Einstein	s photoelectric equation, t	he plot of the kinetic ene	ergy of the emitted photoelectrons from a metal		
	versus frequency of th	e incident radiation gives	a straight line whose slop	pe:		
	a) depends on the natu	re of metal used				
	c) depends on both the	intensity of radiation and t	he nature of metal used			
	d) is the same for all m	etals and independent of th	e intensity of radiation			
49.	Which of the followin	g gate negate the signal?	,			
	a) OR	b) NOT	c) NAND	d) NOR		
50.	Which of the followin	g field provides mass to pa	articles?	1) 4 11 6 1 1		
51	a) Gravitational Field	b) Electric field	c) Higg's field	d) All of the above		
51.	a Cla	b Na		d K		
52.	Silver containing lead	as an impurity is purified	by			
	a. poling	b. cupellation	c. levigation	d. distillation		
53.	Which of the followir	ng metal cannot be extracte	d by smelting process?			
- 4	a. Pb	b. Fe	c. Zn	d. Al		
54.	which metal carbonate	h No CO	ng?	d Ph CO		
55	The nuclei of tritium (H^3) atom would contain ne	C. N ₂ CO ₃	$\mathbf{U}_{1},\mathbf{K}\mathbf{D}_{2}\mathbf{C}\mathbf{O}_{3}$		
00.	a. 1	b. 2	c. 3	d. 4		
56.	The conversion of atom	nic hydrogen into ordinary	y hydrogen gas is			
	a. Exothermic change		b. Endothermic change			
	c. Nuclear change		d. Photochemical chang	e		
57.	Syngas is mixture of $CO + H$	b CO + U	$\sim CO \pm CO$	1 CO + N		
58	Sodium ordinarily doe	0.00 ± 112	tate of +2 because of its	$d. CO + 1N_2$		
	a. High 1 st ionization er	nergy	b. High 2 nd ionization er	nergy		
	c. Large ionic ionization	n	d. high electronegativity	7		
59.	In the given reaction					
	$S + NaOH \longrightarrow A + Na$	$a_2S + H_2O$; A is				
60	a. Na_2SO_4	b. Na_2SO_3	c. Na ₂ S	d. Na ₂ S ₂ O ₃		
60.	Prussic acid is	h HPO	c HCN	4 HCl		
61.	The purest form of car	bon is	C. HEIN	u. 1101		
	a. Diamond	b. Graphite	c. Sugar charcoal	d. Fullerenes		
62.	Which out of the follo	wing is called sugar of lead	d?			
	a. $Pb(NO_3)_2$		b. PbCl ₂			
67	c. PbCO ₃ .Pb(OH) ₂	ot he obtained the head	d. $Pb(CH_3COO)_2$			
03.	$a Pb(NO_{a})$	b KNO	$c N_2 O_4$	d NoO-		
64.	When SO ₂ is passed th	wough acidified solution of	of H ₂ S	u. 11205		
•	a. H_2SO_4 is formed		b. H_2SO_3 is precipitated			
	c. Sulphur is precipitate	ed	d. H_2S is reduced			

65.	The maximum volume at S.T.P. is occupied by					
	a. 12.8 g of SO ₂	b. 6.02×10^{22} molecules	s of CH ₄			
66.	c. 0.5 mol of NO ₂ d. 1 g molecule of CO ₂ If 1 mL of water contains 20 drops, then number of molecules in a drop of water is					
	a. 6.023×10^{23} b. 1.376×10^{26}	c. 1.673×10^{21}	d. 4.346×10^{20}			
67.	Bonr's model of atom is not in agreement with	h Pauli's principle				
	c. Planck's theory	d. Heisenberg's princip	le			
68.	How many electrons in an atom with atomic number 105 can have $(n+\ell) = 8$?					
	a. 30 b. 17	c. 15	d. Unpredictable			
69.	The pair with similar geometry is		I I I I I I I I I I I I I I I I I I I			
	a. BF_3 , NH_3 b. H_2O , C_2H_2	c. CO ₂ ,SO ₂	d. NH ₃ and PH ₃			
70.	Among the following species, the diamagnetic	nolecule is				
71	a. CO b. NO	$C. O_2$	d. B ₂			
/1.	a Zero b Maximum	c Minimum	d Cannot be determined			
72.	Which one of the following has ΔS° has greater	than zero?				
	a. $CaO(s) + Co_2(g) \rightleftharpoons CaCO_3(s)$	b. NaCl(aq) \rightleftharpoons NaCl(s	s)			
	$= \operatorname{Ni-NiO}(a) \longrightarrow \operatorname{Ni-t}(a, a) + \operatorname{NiO}(a, a)$	$d N(x) + 2U(x) \rightarrow 2$				
72	c. NaNO ₃ (s) \rightleftharpoons Na ⁺ (aq) + NO ₃ (aq)	$a. N_2(g) + 3\Pi_2(g) = 2$	2NH ₃ (g)			
75.	For a gaseous reaction. $xA + yD \leftarrow iC + IIID$	K = (K)/(+m)				
	a. $\mathbf{N}_p = \mathbf{N}_c$	$U. K_p = (K_c)^{\circ m}$				
74	$\mathbf{C} \cdot \mathbf{K}_{p} = \mathbf{K}_{c} \cdot (\mathbf{K}_{1})^{(c+m)-(x+y)}$	$u. \kappa_p = 1/\kappa_c$	2			
74.	$a CdS (K = 36 \times 10^{-30})$	h EeS $(K = 11 \times 10^{-10})$	· · ·			
	c. $HgS(K_{sp} = 32 \times 10^{-54})$	d. ZnS (K _{sp} = 11 × 10 ⁻²))			
75.	The solubility product of silver chloride is 1.8 ×	10-10 at 298 K. The solub	/ ility of AgCl in 0.01 M HCL solution in mol/dm ³			
	is					
-	a. 2.4×10^{-9} b. 3.6×10^{-8}	c. 0.9×10^{-10}	d. 1.8×10^{-8}			
76.	A solution of MgCl ₂ in water has pH	- 7	1 14 0			
77	a < 7 If V_0 is the volume of a given mass of gas at 273	C. 7 K at a constant pressure th	0. 14.2 hen according to Charle's law the volume at 10°C			
<i>,,,</i>	will be	it at a constant pressure ti	the according to charte shaw, the volume at 10 C			
	$11 V$ $1 \frac{1}{2} (V + 10)$	10	$\frac{283}{1}$			
	a. 11 V_0 b. $\frac{1}{273}(V_0 + 10)$	c. $V_0 + \frac{10}{273}$	d. $\frac{283}{273}$ V ₀			
78.	a. 11 V _o b. $\frac{1}{273}$ (V ₀ + 10) Steam distillation is based on	c. $V_0 + \frac{10}{273}$	d. $\frac{283}{273}$ V ₀			
78.	a. $11 V_0$ b. $\frac{1}{273} (V_0 + 10)$ Steam distillation is based on a. Boyle's law c. Dalton's law of partial pressure	c. $V_0 + \frac{10}{273}$ b. Charle's law	d. $\frac{283}{273}$ V ₀			
78 . 79.	a. $11 V_o$ b. $\frac{1}{273} (V_0 + 10)$ Steam distillation is based on a. Boyle's law c. Dalton's law of partial pressure How many number of atoms are there in a cub	c. $V_0 + \frac{10}{273}$ b. Charle's law d. Avogadro's law e based unit cell having of	d. $\frac{283}{273}$ V ₀			
78. 79.	a. $11 V_o$ b. $\frac{1}{273} (V_0 + 10)$ Steam distillation is based on a. Boyle's law c. Dalton's law of partial pressure How many number of atoms are there in a cube body diagonal of cube?	c. $V_0 + \frac{10}{273}$ b. Charle's law d. Avogadro's law e based unit cell having o	$d.\frac{283}{273}V_0$ one atom on each corner and two atoms on each			
78. 79.	a. $11 V_o$ b. $\frac{1}{273} (V_0 + 10)$ Steam distillation is based ona. Boyle's lawc. Dalton's law of partial pressureHow many number of atoms are there in a cubebody diagonal of cube?a. 8b. 6	c. $V_0 + \frac{10}{273}$ b. Charle's law d. Avogadro's law e based unit cell having of c. 4	d. $\frac{283}{273}$ V ₀ one atom on each corner and two atoms on each d. 9			
78. 79. 80.	a. $11 V_0$ b. $\frac{1}{273} (V_0 + 10)$ Steam distillation is based ona. Boyle's lawc. Dalton's law of partial pressureHow many number of atoms are there in a cubebody diagonal of cube?a. 8b. 6The rate of certain hypothetical reaction	c. $V_0 + \frac{10}{273}$ b. Charle's law d. Avogadro's law e based unit cell having of c. 4	$d.\frac{283}{273}V_0$ one atom on each corner and two atoms on each $d.9$			
78. 79. 80.	a. 11 V _o b. $\frac{1}{273}$ (V ₀ + 10) Steam distillation is based on a. Boyle's law c. Dalton's law of partial pressure How many number of atoms are there in a cube body diagonal of cube? a. 8 b. 6 The rate of certain hypothetical reaction A + B + C \longrightarrow products, is given by	c. $V_0 + \frac{10}{273}$ b. Charle's law d. Avogadro's law e based unit cell having o c. 4	$d.\frac{283}{273}V_0$ one atom on each corner and two atoms on each $d.9$			
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78. 79. 80. 81.	a. 11 V _o b. $\frac{1}{273}$ (V ₀ + 10) Steam distillation is based on a. Boyle's law c. Dalton's law of partial pressure How many number of atoms are there in a cube body diagonal of cube? a. 8 b. 6 The rate of certain hypothetical reaction A + B + C \longrightarrow products, is given by $\mathbf{r} = \frac{dA}{dt} = \mathbf{k} A ^{1/2} [B]^{1/3} [C]^{1/4}$ The order of a reaction is given by a. 1 b. 1/2 10 g of a radioactive isotope is reduced to 1.25 g	c. V ₀ + <u>10</u> b. Charle's law d. Avogadro's law e based unit cell having o c. 4 c. 2 in 12 years. Therefore hal	 d. ²⁸³/₂₇₃ V₀ one atom on each corner and two atoms on each d. 9 d. 13/12 lf-time period of the isotope is 			
78. 79. 80. 81.	a. 11 V _o b. $\frac{1}{273}$ (V ₀ + 10) Steam distillation is based on a. Boyle's law c. Dalton's law of partial pressure How many number of atoms are there in a cub- body diagonal of cube? a. 8 b. 6 The rate of certain hypothetical reaction A + B + C \longrightarrow products, is given by $\mathbf{r} = \frac{dA}{dt} = \mathbf{k} A^{1/2} [B]^{1/3} [C]^{1/4}$ The order of a reaction is given by a. 1 b. 1/2 10 g of a radioactive isotope is reduced to 1.25 g a. 24 years b. 4 years	c. V ₀ + <u>10</u> b. Charle's law d. Avogadro's law e based unit cell having o c. 4 c. 2 in 12 years. Therefore hal c. 3 years	d. $\frac{283}{273}$ V ₀ one atom on each corner and two atoms on each d. 9 d. 13/12 lf-time period of the isotope is d. 8 years			
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 78. 79. 80. 81. 82. 83. 84. 	a. 11 V ₀ b. $\frac{1}{273}$ (V ₀ + 10) Steam distillation is based on a. Boyle's law c. Dalton's law of partial pressure How many number of atoms are there in a cube body diagonal of cube? a. 8 b. 6 The rate of certain hypothetical reaction A + B + C \longrightarrow products, is given by $r = \frac{dA}{dt} = k$ A] ^{1/2} [B] ^{1/3} [C] ^{1/4} The order of a reaction is given by a. 1 b. 1/2 10 g of a radioactive isotope is reduced to 1.25 g a. 24 years b. 4 years The molarity of NO ₃ in the solution after 2 litro a. 0.6 M b. 1.2 M The IUPAC name of following compound is CH ₃ CH ₂ - CH - CH - CH ₂ CH ₃ CH ₃ CHO a) 2-sec butylbutanal c) 2-ethyl-3-methylpentanal Which of the following species does not act as a	c. V ₀ + $\frac{10}{273}$ b. Charle's law d. Avogadro's law e based unit cell having of c. 4 c. 4 c. 2 in 12 years. Therefore hal c. 3 years es of 3M AgNO ₃ is mixed c. 1.6 M b) 2, 3-diethylbutanal d) 3-methyl-2-ethylper nucleophile?	d. $\frac{283}{273}$ V ₀ one atom on each corner and two atoms on each d. 9 d. 13/12 lf-time period of the isotope is d. 8 years with 3 lites of 1 M BaCl ₂ is d. 0.8 M			
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 78. 79. 80. 81. 82. 83. 84. 85. 	a. 11 V ₀ b. $\frac{1}{273}$ (V ₀ + 10) Steam distillation is based on a. Boyle's law c. Dalton's law of partial pressure How many number of atoms are there in a cubb body diagonal of cube? a. 8 b. 6 The rate of certain hypothetical reaction A + B + C \longrightarrow products, is given by $\mathbf{r} = \frac{dA}{dt} = \mathbf{k} A ^{1/2} [B]^{1/3} [C]^{1/4}$ The order of a reaction is given by a. 1 b. 1/2 10 g of a radioactive isotope is reduced to 1.25 g a. 24 years b. 4 years The molarity of NO ₃ in the solution after 2 litro a. 0.6 M b. 1.2 M The IUPAC name of following compound is $CH_3CH_2 - CH - CH - CH_2CH_3$ $ \ CH_3 CHO$ a) 2-sec butylbutanal c) 2-ethyl-3-methylpentanal Which of the following species does not act as a a) ROH b) ROR $CH_3 - Br + NH_3 \longrightarrow CH_3 - NH_2 + HBr. The reaction$	c. V ₀ + $\frac{10}{273}$ b. Charle's law d. Avogadro's law e based unit cell having of c. 4 c. 4 c. 2 in 12 years. Therefore hal c. 3 years es of 3M AgNO ₃ is mixed c. 1.6 M b) 2, 3-diethylbutanal d) 3-methyl-2-ethylper mucleophile? c) PCl ₃ intion is classified as	d. $\frac{283}{273}$ V ₀ one atom on each corner and two atoms on each d. 9 d. 13/12 lf-time period of the isotope is d. 8 years with 3 lites of 1 M BaCl ₂ is d. 0.8 M			
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 78. 79. 80. 81. 82. 83. 84. 85. 86. 	a. 11 V ₀ b. $\frac{1}{273}$ (V ₀ + 10) Steam distillation is based on a. Boyle's law c. Dalton's law of partial pressure How many number of atoms are there in a cube body diagonal of cube? a. 8 b. 6 The rate of certain hypothetical reaction A + B + C \longrightarrow products, is given by $r = \frac{dA}{dt} = k$)A] ^{1/2} [B] ^{1/3} [C] ^{1/4} The order of a reaction is given by a. 1 b. 1/2 10 g of a radioactive isotope is reduced to 1.25 g a. 24 years b. 4 years The molarity of NO ₃ in the solution after 2 litro a. 0.6 M b. 1.2 M The IUPAC name of following compound is CH ₃ CH ₂ - CH - CH - CH ₂ CH ₃ CH ₃ CHO a) 2-sec butylbutanal c) 2-ethyl-3-methylpentanal Which of the following species does not act as a a) ROH b) ROR CH ₃ - Br + NH ₃ \longrightarrow CH ₃ - NH ₂ + HBr. The reat a) substitution b) addition Which of the following compounds will show r a) CH ₂ =CO-C ₄ Hr.	c. V ₀ + $\frac{10}{273}$ b. Charle's law d. Avogadro's law e based unit cell having of c. 4 c. 4 c. 2 in 12 years. Therefore hal c. 3 years es of 3M AgNO ₃ is mixed c. 1.6 M b) 2, 3-diethylbutanal d) 3-methyl-2-ethylper nucleophile? c) PCl ₃ iction is classified as c) elimination netamerism? b) C ₃ Hr=S=C-H-	d. $\frac{283}{273}$ V ₀ one atom on each corner and two atoms on each d. 9 d. 13/12 lf-time period of the isotope is d. 8 years with 3 lites of 1 M BaCl ₂ is d. 0.8 M ntanal d) BF ₃ d) rearrangement			
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Achievers' Hub

87.	In the free radical chlorination of methane, the	chain initiating step in	volves the formation of
	a) chlorine free radical	b) hydrogen chloride	
	c) methyl radical	d) chloromethyl radic	al.
88.	Which one of the following gives only one more	nochloro derivative?	
	a) n-hexane	b) 2-methylpentane	
	c) 2, 3-dimethylpentane	d) neo-pentane	
89.	Aromatisation of n-hexane gives :		
	a) cyclohexane b) benzene	c) cycloheptane	d) toluene
90.	Which of the following represents the correct r	eaction?	
	a) $CH_4 + 2H_2O \longrightarrow CO_2 + 4H_2$	b) $CH_4 + H_2O \longrightarrow$	$CO + 3H_2$
	c) $CH_4 + H_2O \longrightarrow CH_3OH + H_2$	d) $CH_4 + H_2O \longrightarrow I$	$HCHO + 2H_2$
91.	In the preparation of chlorobenzene from anili	ne, the most suitable re	eagent is
	a) Chlorine in the presence of ultraviolet light		
	b) Chlorine in the presence of $AlCl_3$	/11/21	
	c) Nitrous acid followed by neating with Cu_2Cl_2	/HCI	
07	u) $\Pi \subseteq \Pi \sqcup \subseteq \mathbb{C}_2$ Which of following can be used as solvent for \mathcal{L}	Crignard reagent?	
92.	a) HaO	of CHOH	d) CaH-OCaH-
03	$b) C_{2115}O_{11}$	0 0113011	$(1) C_{21} I_{5} O C_{21} I_{5}$
<i>J</i> J.	a) insecticide b) refrigerant	c) a solvent	d) a fire extinguisher
94	Acid catalyzed hydration of alkenes except eth	ene leads to the formati	ion of
J 1.	a) primary alcohol	che reuds to the formut	
	b) secondary or tertiary alcohol		
	c) mixture of primary and secondary alcohols		
	d) mixture of secondary and tertiary alcohols		
95.	Commercially carboxylic acids are reduced to a	lcohols by converting t	them to the
	a) esters b) aldehydes	c) ketones	d) amines
96.	Ether which is liquid at room temperature is		
	a) $C_2H_5OCH_3$ b) CH_3OCH_3	c) $C_2H_5OC_2H_5$	d) None of these
97.	For carbylamine reaction, we need hot alcoholi	c KOH and	
	a) any primary amine and chloroform	b) chloroform and silv	ver powder
	c) a primary amine and an alkyl halide	d) a monoalkylamine	and trichloromethane
98.	Azo dye is prepared by the coupling of phenol	with	1\ 1.1 1
00	a) diazonium chloride b) o-nitroaniline	c) benzoic acid	d) chlorobenzene
99.	a) CO ₂ and H ₂ O b) Bonzoic acid	c) Bonzaldobydo	d) Bonzonhonono
100	The polymer used in making hair synthetic hai	ir wigs is mage up of	d) benzophenone
100.	a) CH ₂ =CHCl	b) CH ₂ =CHCOOCH	[o
	c) $C_2H_5CH=CH_2$	d) CH ₂ =CH-CH=CH	5 1 ₂
101.	Which is the most acceptable theory for origin	of life?	-2
	(a) Abiogenesis theory	(b) Biogenesis theory	V
	(c) Miller and Urey	(d) Oparin and Hald	len
102.	Abiogenesis theory was disapproved on the ba	sis of boiled material b	ру У
	(a) F. redi (b) L. Pasteur	(c) Anximander	(d) L Splanzinii
103.	Which is the living fossil among them?		
	(a) Neoplina (b) Lingula	(c) Latimaria	(d) Ginko
104.	Age of agriculture belongs to		
405	(a) Paleolithic (b) Mesolithic	(c) Neolithic	(d) Bronze age
105.	Which Protozoa has no contractile vacuole?		
106	(a) Entamoeba histolytica (b) Amoeba proteus	(c) Euglena	(d) Paramecium
106.	(a) The motor system is shown by	(a) Danamaainum	(d) Ciandia
107	(a) <i>Trypunosoma</i> (b) <i>Trichomonus</i>	(C) Paramecium	(a) Giuraia
107.	(a) it will be ingested and digested	(b) It will be increased	d and then thrown away
	(c) it will be thrown away	(d) it remains where	it was
108.	Food digestion takes place in <i>Hudra</i> by	(u) it remains where	
100.	(a) Epithelial tissue	(b) Endothelio-musc	rular cell
	(c) Endothelio-gland cell	(d) Cnidoblast cell	
109.	A person goes to astrologer for advice to solve	mars affecting problem	. Which organism is suggested to be used as ring?
	(a) <i>Tubipora</i> (b) <i>Corallium</i>	(c) Helcyonium	(d) Oculina
110.	Laurer's canal is found in	(-)	
	(a) Taenia (b) Fasciola	(c) Planaria	(d) Echinococus
111.	The sequence of layers of body wall in Ascaris	s is:	
	(a) Cuticle-epidermis- longitudinal muscle layer		
	(b) Cuticle-epidermis-circular muscle layer		
	(c) Cuticle-epidermis-longitudinal muscle layer-	circular muscle layer	
	(d) Cuticle-epidermis-circular muscle layer-long	itudinal muscle layer	

110	Description for a description of the description	1		
112.	Bonellia feeds with the ne	Parama dia	(a) Duala a a sia	
112	(a) Tentacles (b)) Parapoula	(C) Prodoscis	(d) setae
115.	(a) <i>Diagmodium minar</i>		(b) Dlasmodium malaria	
	(a) Flusmoulum oloux (c) Plasmodium falcinarum		(d) Plasmodium maturia	
114	Which of the following in	Plasmodium causes chi	(c) I wishoutum oouue	
114.	(a) Gametocutes (b)) Haemoolohin	(c) Trophozoites	(d) Haemozoin
115.	Cuticle of annelids is:) 11uemogiovin	(C) 110ph020tics	(u) memozom
110.	(a) Non-chitinous and albu	uminoid	(b) Chitinous	
	(c) Chitinous and albumine	oid	(d) Non-chitinous	
116.	Which cell produces setae	in earthworm?	(a) i toir chunio as	
	(a) Goblet cell (b) Chief cell	(c) Parietal cell	(d) Trichogen cell
117.	Allantois of the mammalia	an embryo helps in		
	(a) Respiration (b) Excretion	(c) Protection	(d) Nutrition
118.	Innominate vein in frog is	made by combination	of	
	(a) Lingual and mandibula	r	(b) Internal jugular and s	sub-scapular
	(c) Brachial and musculocu	itaneous	(d) Hepatic portal and an	nterior abdominal
119.	Bidder's canal of frog is pr	resent in		
	(a) Liver (b) Kidney	(c) Testes	(d) Urinary bladder
120.	Which type of placenta is	found in human being?		
	(a) Bidiscoidal		(b) Metadiscoidal	
	(c) Haemochial		(d) metadiscoidal and ha	emochorial
121.	Which ion is contained in	vitamin C?		
4.00	(a) Zn++ (b) ascorbat ion	(c) Mg++	(d) Na ++
122.	Which gastrin is used for t	testing gastric function	() D' ('	
100	(a) <i>Minigastrin</i> (b	b) Gastrin	(c) Big gastrin	(d) Pentagastrin
123.	Maximum water absorptio	on occurs in numan beir	ig by	
104	(a) caecum (D) lieum $f \mathbf{O}$ dograd	(c) colon	(a) Jejunum
124.	(a) topporature increase	al pressure of O ₂ decrea	(b) temporature decrease	
	(a) temperature increase	sft	(d) CO ₂ decrease	
125	Trachea is lined by	.1 t	(u) CO ₂ decrease	
125.	(a) Pseustratified epithelial	tissue		
	(a) i seusitainea epitiena	1 ussue		
	(b) Columnar Pseustratitie	d enithelial tissue		
	(b) Columnar Pseustratified	d epithelial tissue dostratified epithelial tis	S116	
	 (b) Columnar Pseustratified (c) Ciliated columnar pseud (d) ciliated epithelial tissue 	d epithelial tissue dostratified epithelial tis e	sue	
126.	 (b) Columnar Pseustratified (c) Ciliated columnar pseud (d) ciliated epithelial tissue What happens when prim 	d epithelial tissue dostratified epithelial tis e arv urine reaches to PC	sue T of nephron. As we kno	w PCT is permeable to water. Then what $\%$ of
126.	 (b) Columnar Pseustratified (c) Ciliated columnar pseud (d) ciliated epithelial tissue What happens when prim water diffuses from PCT 	d epithelial tissue dostratified epithelial tiss any urine reaches to PC	sue T of nephron. As we kno	ow PCT is permeable to water. Then what % of
126.	(b) Columnar Pseustratified (c) Ciliated columnar pseud (d) ciliated epithelial tissue What happens when prim water diffuses from PCT (a) 100 (b)	d epithelial tissue dostratified epithelial tis e hary urine reaches to PC o) 65	sue T of nephron. As we kno (c) 25	w PCT is permeable to water. Then what % of (d) 10
126. 127.	(b) Columnar Pseustratified (c) Ciliated columnar pseud (d) ciliated epithelial tissue What happens when prim water diffuses from PCT (a) 100 (b) Which louder sound is pro-	d epithelial tissue dostratified epithelial tis e ary urine reaches to PC b) 65 oduced during closing o	sue T of nephron. As we kno (c) 25 f auriculoventricular val	tow PCT is permeable to water. Then what $\%$ of (d) 10 ves at the start of ventricular systole by heart in
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 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 	 (b) Columnar Pseustratified (c) Ciliated columnar pseud (d) ciliated epithelial tissue What happens when prim water diffuses from PCT (a) 100 (b) Which louder sound is prohuman being? (a) Dub (b) When a person is injured 1 is paralyzed? (a) right (b) Short time memory is confident of the second seco	d epithelial tissue dostratified epithelial tiss ary urine reaches to PC b) 65 oduced during closing of by falling from taller tro b) Lub by falling from taller tro b) left trolled by b) cerebellum activated by cerebellum activated by cerebellum	sue T of nephron. As we kno (c) 25 f auriculoventricular value (c) Murmur ee and his right side of b (c) mid (c) cerebrum Iled with blood, and at th (b) Graafian follicle (d) ovarian hemorrhage (c) Synovial fluid (c) lingual gland (b) Steroids - adrenal con (d) Insulin – β cells (b) Calcium phosphate (d) Calcium silicate	w PCT is permeable to water. Then what % of (d) 10 ves at the start of ventricular systole by heart in (d) love rain is injured. Then which side of leg or hand (d) both right and left (d) hippocampus of temporal lobe his time, the follicle is called (d) Haemolymph (d) Harderian gland rtex

Achievers' Hub

137.	Aplastic aenemia is cau	ised by			
	(a) Deficiency of Iron		(b) Genetic		
	(c) Non-genetic		(d) failure of RBC format	tion in bone marrow	
138.	When a person takes co which part of human be	ontaminated food along w eing is affected among the	vith rhabditoid and the pe em?	erson is effected from Ascariasis disease. Then	
139.	(a) stomach Which type of taxis is s	(b) jejunum hown by Euglena	(c) Ileum	(d) colon	
107.	(a) Tropo taxis	(b) Klinotaxis	(c) Menotaxis	(d) Telotaxis	
140	Which is first antibody	to be synthesis by foetus	of 5 months? Presence of	this antibody in new born	
110.	child indicates the infe	ction like congenital synh	ilie (5%)	this untibody in new boin	
	(a) $I_{\alpha}A$	(b) IgM	(c) IgE	(d) IgC	
1/1	Which organollo is rosp	(b) igni	(c) ign	(u) 1gG	
141.	(a) Smooth E R	(b) REP	(c) Colgi bodios	(d) Controsomo	
142	(a) Shiooni E.K.	(b) KEK	(c) Goigi boules	(u) Centrosome	
172,	(a) Colgi body	(b) RER	(c) SER	(d) Centrosome	
143	Aleurone laver found in	n maize grain is for the st	(c) oll ((d) centrosome	
140.	(a) Protein (e.g. of prote	pionlast)	(b) Carbobydrate		
	(c) liquid	elopiast)	(d) Eat		
144	Which contractile prote	in is found in microfilam	ent		
111,	(a) Actin	(b) Myosin	(c) Collagen	(d) Flastin	
145	Shape of chromosome of	can be determined at	(c) conagen		
110.	(a) Anaphase	(b) Prophase	(c) Metaphase	(d) Telophase	
146.	Segregation or disjunct	ion of homologous chrom	osome takes place in	(d) Telephase	
	(a) Anaphase I	(b) Telophase I	(c) Pachytene	(d) Diakinesis	
147.	Milk protein is	(.)	(0))	(1)	
	(a) Lactose (Milk sugar)		(b) Myosin		
	(c) Casein		(d) Pepsin		
148.	Virus is a		(1) - 1		
	(a) living particle	(b) non-living particle	(c) obligate parasite	(d) Bacteriophage	
149.	Two flagella, one on ea	ch end is called			
	(a) Amphitrichous		(b) Cephalotrichous		
	(c) Monotrichous		(d) Peritrichous		
150.	Genetic transfer throug	h viruses in bacteria is cal	lled		
	(a) Transduction	(b) Translation	(c) Transcription	(d) Transposition	
151.	Flagella of bacteria is m	nade up of			
	(a) Flagellin protein	(b) Collagen protein	(c) Elastin protein	(d) Fibrin protein	
152.	Female cone represents		_		
	(a) Inflorescence	(b) Fruit	(c) Seed	(d) Female gamete	
153.	Snakes of plant kingdo	m (Botanical snakes) are			
	(a) Bryophytes	(b) Thallophytes	(c) Pteridophytes	(d) Gymnosperm	
154.	Lichens are bio-indicate	or of			
	(a) SO_2 pollution (air po	llution)	(b) Soil pollution		
	(c) Noise pollution		(d) Water pollution		
155.	Secondary meristem de	evelops from			
	(a) Primary permanent t	tissue	(b) Secondary permanen	ttissue	
	(c) Apical meristem		(d) Lateral meristem		
156.	Flowering hormone is				
4	(a) Adrenaline	(b) Florigen	(c) Ethylene	(d) Gibberellin	
157.	Many grasses leaves are	e capable of folding and u	infolding due to		
150	(a) Bulliform cells	(b) Mesophyll cell	(c) Spongy tissue	(a) Epidermis	
158.	Distribution of hormon	(1) OPD			
150	(a) Osmosis	(b) OPD	(c) Suction pressure	(d) Diffusion	
159.	(a) Osmosio	(b) Diffusion	(a) Movement	(d) Imhibition	
160	(a) USINOSIS	(b) Diffusion	(c) Movement	(d) inididition	
100.	(a) ATP and MADPH.	sit reaction is	(b) NADPH, and glucos		
	(a) All all NADI II2 (c) Only ATP		(d) $\Omega_{\rm r}$ and glucose	2	
161	Cibberellin stimulates	flowering in	(d) O ₂ and grucose		
101.	(a) The long day plants	nowening in	(b) Short day plant		
	(c) Both long day and St	ort day plants	(d) None		
162.	The cell organelle in w	hich aerobic respiration ta	kes place is		
	(a) Mesosome	(b) Cytoplasm	(c) Mitochondria	(d) Oxysome	
163.	The 1st step of photosy	nthesis is	(-)	()	
	(a) Excitement of an elec	ctron of chlorophvll by a p	roton of light		
	(b) Production of O_2				
	(c) Excitement of proton	L			
	(d) Production of glucos	se			

164.	 Crossing over takes place between (a) non-sister chromatids of homologous chromosomes (b) sister chromatids 				
	(c) same chromatids				
	(d) chromatids of other	different chromosomes			
165.	Transfer of trait from f	ather to grandson through	daughter is called		
	(a) Holandric inheritance	ce	(b) Criss-cross inheritan	nce	
	(c) Halogenic inheritance	ce	(d) Dominant inheritance	æ	
166.	Genotype of Turner's S	Syndrome is	. ,		
	(a) 44 + XX	(b) $44 + XY$	(c) 44 + XO	(d) 44 + XXX	
167.	Transformation experim	ment was conducted by	· · /	· /	
	(a) Frederick Griffith		(b) Linus Paulin		
	(c) Meselson and Stahl	(d) Watson and Crick			
168.	Nucleoside is compose	d of			
	(a) Sugar + Nitrogenous	s base	(b) Nitrogenous base + I	Phosphate	
	(c) Sugar + Nucleotide	(d) Nucleotide – Sugar			
169.	The smallest RNA is			(1) 11	
150	(a) mRNA	(b) rRNA	(c) tRNA	(d) All are same	
170.	Endosperm in angiosp	erms is		(4) Tutulat 1	
1 171	(a) Haploid	(b) Dipioid	(c) Tetrapioid	(a) Tripioia	
1/1.	A Disexual flower white	(b) Yong gamu	(a) Allogomy	(d) Claista comu	
172	(a) Chasmogamy	(D) Actiogatily	(C) Allogally	(u) Cleistoganty	
1/2.	(a) Lateral short culture	(b) Root tip culture	hereneu		
	(c) Shoot tip culture	(b) Root up culture	(d) Intercalary meristem	culture	
173	Progeny of single self-	fertilized homozygous pla	nt is	culture	
1,0,	(a) Gene pool	(b) Gene drift	(c) Evolutionary line	(d) Pure line	
174.	Superiority of hybrid of	over its parent is called	(•) = • • • • • • • • • • • • • • • • • •	(1)	
	(a) F hybrid	(b) Heterosis	(c) Dominant	(d) Super dominant	
175.	Keystone species in eco	osystem are those	. ,		
	(a) Present in maximum	number	(b) That are most frequent		
	(c) Attaining a large bio	mass	(d) Contributing to ecos	ystem properties	
176.	Ozone depletion in the	stratosphere is caused by			
	(a) CO ₂	(b) N ₂	(c) CFC	(d) F ₂	
177.	Pneumatophores are pr	resent in the plants growin	ng in		
	(a) Marshy saline area		(b) Sunny area		
	(c) Muddy area		(d) Desert area		
178.	In plants like Chrysanthemum, Mentha and Jasmine, the stem is a sub-arial modification called				
	(a) Sucker	(b) Stolon	(c) Offset	(d) Runner	
179.	Tagetes belong to the fa	amily.	()		
	(a) Compositae	(b) Asteraceae	(c) Cruciferae	(d) Both a and b	
180.	Single cotyledon of mo	pnocot is			
	(a) Plumule	(b) Mesocoty]	(c) Coleorhiza	(d) Scutellum	
181.	Arrange the words in a	meaningful, logical order	(c) concorridua	(u) ocuronum	
	1. Puberty	2. Adulthood	3. Childhood		
	4. Infancy	5. Senescence	6. Adolescence		
	(a) 2,4,6,3,1,5	(b) 4,3,1,6,2,5	(c) 4,3,6,2,1,3	(d) 5,6,2,3,4,1	
182.	What is 100 th letter of t	he series ABBCCCDDDD	•	× <i>, , , , , , ,</i>	
	(a) I	(b) J	(c) K	(d) N	

183. Which of the following diagrams indicates the best relation between Iron, Lead, Nitrogen?



- 184. P × Q means P is the sister of Q. P + Q means P is the father of Q. P - Q means P is the mother of Q. Which of the following means S is the aunt of T?
- (a) $T \times M + S$ (b) $S + T \times M$ (c) $S \times M + T$ (d) $S \times M + R - T$ 185. Bharati is 8 ranks ahead of Gita, who ranks 26th in a class of 42. What is Bharati's rank from the last? (a) 9th
 - (b) 24th (c) 25th (d) 34th
- 186. A man is facing south. He turns 135° clockwise and then 180° anti-clockwise. Which direction is he facing now?
 - (b) West (c) South-east (d) South-west (a) North-east If today is Thursday, then what will be the day on 363rd day?
- 187. (c) Thursday (d) None of them (a) Sunday (b) Saturday



199. Select a figure from amongst the four alternatives, which when placed in the blank space of figure (X) would complete the pattern.



200. A set of three figures X, Y and Z is showing a sequence of folding of a piece of paper. Which would most closely resemble the unfolded form in the figure (Z).

