



SAMPLE PAPER # 01

TARGET : PRE-MEDICAL 2022

Test Type : SAMPLE PAPER

Test Pattern : NEET (UG)

ANSWER KEY

Q.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
A.	3	1	2	2	1	2	2	2	3	2	1	2	4	1	1	4	3	2	3	1	3	3	1	1	1	1	3	3	2	4
Q.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
A.	4	2	4	3	2	2	3	2	2	3	2	2	3	1	2	3	4	4	4	4	3	4	3	1	4	1	3	2	2	1
Q.	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
A.	3	1	3	2	4	3	2	1	1	2	3	1	4	1	1	4	1	1	1	2	4	4	1	3	1	1	2	2	1	1
Q.	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
A.	2	3	4	4	2	4	2	4	1	1	2	3	2	4	1	3	3	3	2	3	4	4	3	2	2	4	3	4	3	4
Q.	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150
A.	2	4	2	1	3	4	3	2	3	2	2	3	4	1	2	2	3	1	4	4	2	3	3	4	3	1	3	1	1	3
Q.	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180
Q.	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200										
A.	4	1	3	4	3	2	4	3	3	4	2	3	1	4	3	3	4	3	4	3	3	3	2	2	2	1	1	4	1	4

HINT – SHEET

SUBJECT : PHYSICS

SECTION-A

1. Ans (3)

$$F = A \sin C t + B \cos D x$$

$$[Ct] = 1 \Rightarrow [C] = [T^{-1}]$$

$$[A] = [F], [B] = [F] \text{ and } [D] = [L^{-1}]$$

$$\Rightarrow \left[\frac{A}{B} \right] = 1 \text{ and } \left[\frac{C}{D} \right] = [LT^{-1}]$$

2. Ans (1)

When particle is thrown above its acceleration is constant equal to 'g' downwards

$$\Rightarrow \text{Slope} = \frac{dv}{dt} = -ve$$

{as acceleration is downwards}

and at highest point ; velocity becomes zero.

3. Ans (2)

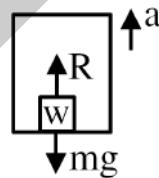
Magnitude of change in velocity = $2us \sin \theta$

$$= 2 \times 50 \times \sin 37^\circ$$

$$= 100 \times \frac{3}{5}$$

$$= 60 \text{ m/sec}$$

4. Ans (2)

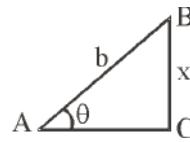


$$R - mg = ma$$

$$R = (mg + ma)$$

5. Ans (1)

As shown in the figure, let θ be the angle of banking to counteract the centrifugal force.



$$\text{Now, } \tan \theta = \frac{x^2}{Rg}$$

If x be the elevation required then,

$$\sin \theta = \frac{x}{b} \text{ or } \theta = \sin^{-1} \theta = \tan^{-1} \theta = \frac{x}{b}$$

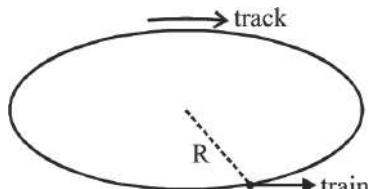
$$\therefore \frac{x}{b} = \tan \theta = \frac{v^2}{Rg} \text{ or } x = \frac{v^2 b}{Rg}$$

6. Ans (2)

Centre of mass may be at centre if mass density increase or decrease in symmetric way about centre.

7. Ans (2)

as there is no external torque



$$\text{So } I_{\text{track}} \times \omega_{\text{track}} = I_{\text{train}} \times \omega_{\text{train}}$$

Let $\omega_{\text{track}} = \omega$

$$\text{then } \omega_{\text{train}} = \left(\frac{v}{R} - \omega \right)$$

$$\therefore mR^2\omega = MR^2 \left(\frac{v}{R} - \omega \right)$$

$$\Rightarrow \left(\frac{m}{M} + 1 \right) \omega = \frac{v}{R} \Rightarrow \omega = \frac{v}{\left(\frac{m}{M} + 1 \right) R}$$

8. Ans (2)

$$\frac{I_{\text{Ring}}}{I_{\text{Disc}}} = \frac{\frac{1}{2}MR^2}{\frac{1}{2}MR^2} = 2 : 1$$

9. Ans (3)

We know that $\frac{dA}{dt} = \frac{L}{2m}$ ($L \rightarrow$ angular momentum)

$$L = mr^2\omega$$

$$\frac{dA}{dt} = \frac{mr^2\omega}{2m}$$

$$\frac{dA}{dt} = \frac{r^2\omega}{2}$$

$$\frac{dA}{dt} \propto \omega r^2$$

10. Ans (2)

$$V_p - V_\infty = -\frac{GM}{r}$$

If $V_\infty = 0$

$$\text{then } V_p = -\frac{GM}{r}$$

$$\Rightarrow -5 = -\frac{GM}{r} \Rightarrow \frac{GM}{r} = 5$$

Now $V_\infty = 10$

$$\text{then } V_p - 10 = -\frac{GM}{r}$$

$$V_p - 10 = -5$$

$$V_p = +5 \text{ J/kg}$$

11. Ans (1)

$$AV = \text{constant}$$

If $A \downarrow$ then speed \uparrow and pressure \downarrow

12. Ans (2)

$$F = \eta A \frac{\Delta V}{\Delta y}$$

$$\begin{aligned} F &= 0.07 \times 1 \times \frac{0.1}{1 \times 10^{-3}} \\ &= 0.07 \times 0.1 \times 10^3 \\ &= 7 \text{ N.} \end{aligned}$$

13. Ans (4)

$$\gamma = \frac{\text{Stress}}{\text{Strain}} \Rightarrow \text{Stress} = \gamma \times \text{Strain}$$

$$= 2 \times 10^{11} \times 10^{-3} = 2 \times 10^8 \text{ N/m}^2$$

$$\text{Now} \Rightarrow \text{Stress} = \frac{\text{Weight}}{\text{Area}}$$

$$\Rightarrow \text{Weight} = \text{Stress} \times \text{Area}$$

$$\text{Weight} = 2 \times 10^8 \times \pi (0.5 \times 10^{-3})^2$$

$$= 157 \text{ N}$$

14. Ans (1)

At constant volume

$$P \propto T \Rightarrow \frac{\Delta P}{P} = \frac{\Delta T}{T} = \frac{1}{250}$$

$$\frac{\Delta P}{P} \times 100 = \frac{1}{250} \times 100 = 0.4\%$$

15. Ans (1)

$$v_{\text{rms}} \propto \sqrt{T} \Rightarrow \frac{v_1^2}{v_2^2} = \frac{T_1}{T_2}$$

$$\left(\frac{v}{v/2} \right)^2 = \frac{600}{T}$$

$$T = \frac{600}{4} = 150 \text{ K} = -123 \text{ }^\circ\text{C}$$

16. Ans (4)

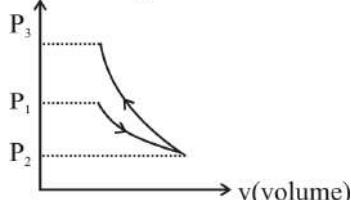
$$\frac{\Delta U}{\Delta Q} = \frac{nC_v \Delta T}{nC_p \Delta T} = \frac{C_v}{C_p} = \frac{1}{\gamma} = \frac{10}{14}$$

$$= \frac{5}{7} \approx 0.7$$

17. Ans (3)

Here $P_3 > P_1$ and $w < 0$

P(Pressure)



18. Ans (2)

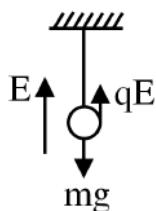
$$\eta = 1 - \frac{T_2}{T_1} = \frac{W}{Q}$$

$$1 - \frac{300}{900} = \frac{W}{3 \times 10^6}$$

$$\frac{2}{3} = \frac{W}{3 \times 10^6}$$

$$W = 2 \times 10^6 \text{ cal} = 2 \times 4.2 \times 10^6 \text{ J} = 8.4 \times 10^6 \text{ J}$$

19. Ans (3)



$$\text{Net downward force} = (mg - qE)$$

$$g_{\text{eff}} = \left(g - \frac{qE}{m} \right)$$

$$T = 2\pi \sqrt{\frac{\ell}{g_{\text{eff}}}}$$

$$T = 2\pi \sqrt{\frac{\ell}{g - \frac{qE}{m}}}$$

20. Ans (1)

By simply comparing given equation by $y = a \sin(\omega t - kx)$ and substituting the values $a = 25\pi$, $\beta = \pi$

21. Ans (3)

$$V = f\lambda \Rightarrow 360 \text{ m/s} = 500 \text{ Hz}(\lambda)$$

$$\lambda = 0.72 \text{ m}$$

$$\text{Now we know } \Rightarrow \frac{\Delta x}{\lambda} = \frac{\Delta \phi}{2\pi}$$

$$\frac{\Delta x}{0.72} = \frac{\pi/3}{2\pi}$$

$$\Delta x = 0.12 \text{ m}$$

22. Ans (3)

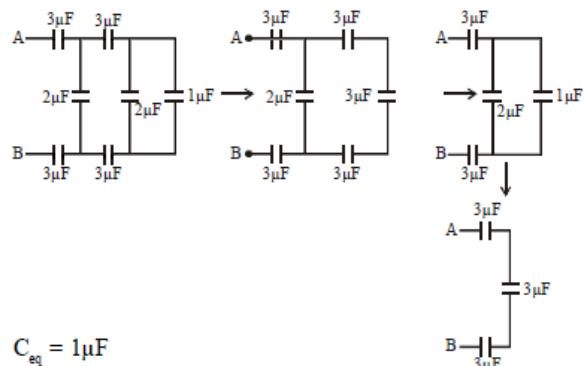
Equal and opposite force as it is action reaction.

23. Ans (1)

$$T = \frac{1}{4\pi\epsilon_0} \frac{Q^2}{(2L)^2}$$

24. Ans (1)

Equivalent circuit can be redrawn as



$$C_{\text{eq}} = 1\mu\text{F}$$

25. Ans (1)

According to maximum power theorem.

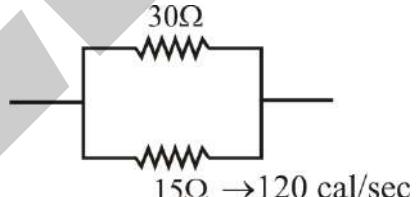
26. Ans (1)

$$r = R \left(\frac{\ell_1 - \ell_2}{\ell_2} \right)$$

$$= 10 \left(\frac{55 - 50}{50} \right)$$

$$r = 1\Omega$$

27. Ans (3)



In parallel

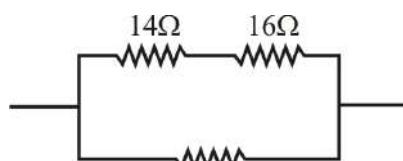
$$H \propto \frac{1}{R}$$

$$\text{So, } H_{30} = \frac{15}{30} (120)$$

$$= 60 \text{ cal/sec.}$$

But in series

$$H \propto R$$



60 cal/sec will divide in the ratio of resistance

$$H_{14} = \left(\frac{14}{14 + 16} \right) 60$$

$$= 28 \text{ cal/sec.}$$

28. Ans (3)

$$R = \frac{mv}{qB} = \sqrt{\frac{2Vm}{q}} \left(\frac{1}{B} \right)$$

29. Ans (2)

By theory

30. Ans (4)

If rod is inserted, B increases to μ_r times so, magnetic flux = $B \times A$ also increases.

Also L increases to μ_r time but, rate of joule heating = i^2R remains same.

31. Ans (4)

In purely inductive circuit voltage leads the current by 90° .

32. Ans (2)

$$\therefore Z^2 = A^2 + B^2$$

$$\therefore [Z] = [A] = [B]$$

$$\therefore [AB] = [Z]^2 = [\text{ohm}]^2$$

Now,

$$\begin{aligned} \text{ohm} &\equiv \frac{V}{i} \equiv \frac{\text{work}}{\text{charge} \times \text{current}} \equiv \frac{ML^2T^{-2}}{(AT)A} \\ &= ML^2T^{-3}A^{-2} \\ \therefore [AB] &= [M^2L^4T^{-6}A^{-4}] \end{aligned}$$

33. Ans (4)

Electric & magnetic field vectors are perpendicular to each other so option (4) is false.

34. Ans (3)

$$\begin{aligned} \text{From the formula } \sin C &= \frac{1}{\mu_1 \mu_2} \Rightarrow \sin C = \frac{1}{\mu_1} \\ &= \frac{\mu_1}{\mu_2} = \frac{v_2}{v_1} \Rightarrow \sin C = \frac{10x/t_2}{x/t_1} \\ \Rightarrow \sin C &= \frac{10t_1}{t_2} \Rightarrow C = \sin^{-1} \left(\frac{10t_1}{t_2} \right) \end{aligned}$$

35. Ans (2)

From the diagram it is clear that object is virtual

$$\therefore U = +12 \text{ cm}$$

$$f = +20 \text{ cm}$$

$$\frac{1}{v} - \frac{1}{u} = \frac{1}{f}$$

$$\frac{1}{v} - \frac{1}{(+12)} = \frac{1}{+20}$$

$$\frac{1}{v} = \frac{1}{20} + \frac{1}{12}$$

$$\frac{1}{v} = \left(\frac{12+20}{240} \right)$$

$$v = \frac{240}{32} = 7.5 \text{ cm}$$

SECTION-B

36. Ans (2)

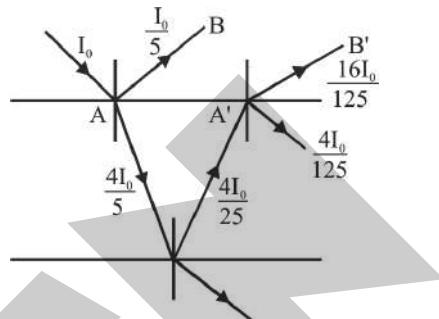
$$i_1 = 15^\circ, A = 30^\circ, \delta = 55^\circ, i_2 = ?$$

$$i_1 + i_2 = A + \delta ; 15 + i_2 = 30 + 55$$

$$\Rightarrow i_2 = 15 + 55 = 70^\circ$$

37. Ans (3)

According to the question, Intensity of ray AB, I_1



$$= \frac{I_0}{5}, \text{ and Intensity of ray } A'B',$$

$$I_2 = \frac{16I_0}{125}, I_{\max} = (\sqrt{I_1} + \sqrt{I_2})^2 = \frac{81}{125}I_0$$

$$I_{\min} = (\sqrt{I_1} - \sqrt{I_2})^2 = \frac{I_0}{125}, \frac{I_{\max}}{I_{\min}} = 81$$

38. Ans (2)

$$Z_F \leq \frac{a^2}{\lambda}$$

Ray optics is valid

39. Ans (2)

Work function = $h\nu_0$.

40. Ans (3)

3rd excited state means n = 4

$$\text{So no. of spectral line} = \frac{n(n-1)}{2} = 6$$

41. Ans (2)

$${}_1^H \text{H}^2 \rightarrow \frac{\text{B.E.}}{A} = 1.11 \text{ MeV}$$

$$\text{B.E.} = 1.11 \text{ MeV} \times A$$

$$= 1.11 \text{ MeV} \times 2$$

$$= 2.22 \text{ MeV}$$

$$\text{B.E. (MeV)} = \Delta m \times 931 \text{ MeV}$$

$$\Delta m = \frac{2.22}{931} = 0.00238 \text{ amu}$$

42. Ans (2)

Ionising property depends upon the charge and mass.

43. Ans (3)

KVL in collector circuit :

$$+10 - I_C \times (10^3) - V_{CE} = 0$$

$$\Rightarrow I_C \times 10^3 = 10.5 = 5$$

$$\Rightarrow I_C = 5 \times 10^{-3} \text{ A}$$

$$\text{Also } \beta = \frac{I_C}{I_B} \Rightarrow I_B = \frac{5 \times 10^{-3}}{100}$$

KVL in base circuit :

$$+10 - I_B R_B - V_B E = 0$$

$$\Rightarrow 10 - 5 \times 10^{-5} \times R_B - 0 = 0$$

$$\Rightarrow R_B = 2 \times 10^5 \Omega$$

$$R_B = 200 \times 10^3 \Omega$$

44. Ans (1)

Putting $(0, 0)$

$$A + B = 0,$$

$$\overline{A + B} = 1,$$

$$A \cdot B = 0, \quad \overline{A \cdot B} = 1$$

For any other value $\overline{A + B} = 0$

45. Ans (2)

Theoretical

46. Ans (3)

Fractional energy remaining in m_1 after head-on elastic collision with stationary m_2 is

$$= \left(\frac{m_1 - m_2}{m_1 + m_2} \right)^2 = \left(\frac{8 - 2}{8 + 2} \right)^2 \\ = 0.36$$

So remaining energy is $= 0.36 E$

47. Ans (4)

$$(K.E.)_{\max} = \frac{1}{2} K A^2 = \frac{1}{2} (6 \times 10^5) (16 \times 10^{-4})$$

$$\Rightarrow (K.E.)_{\max} = 480 \text{ J}$$

$$T.E. = (K.E)_{\max} + (P.E)_{\min}$$

$$\Rightarrow 600 = 480 + PE_{\min}$$

$$\Rightarrow (PE)_{\min} = 120 \text{ J}$$

$$\Rightarrow (P.E.)_{\max} = 600 \text{ J when K.E.} = 0$$

48. Ans (4)

Electric field due to a charged wire is

$$\frac{\lambda}{2\pi\epsilon_0} \ln(3)$$

$$dv = -Edr$$

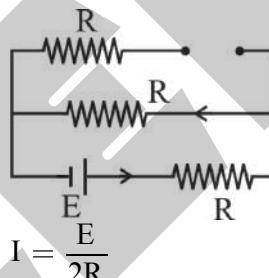
$$V_B - V_A \text{ and } \frac{\lambda}{2\pi\epsilon_0} \ln(3)$$

$$= - \int_r^{3r} \frac{2k\lambda}{r} dr = -2k\lambda(\ell\mu r)^{3r}$$

$$= -2k\lambda \ln(3)$$

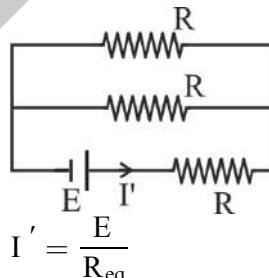
$$V_A - V_B = 2k\lambda \ln(3)$$

49. Ans (4)



$$I = \frac{E}{2R}$$

finally



$$R_{eq} = R + \frac{R}{2} = \frac{3R}{2}$$

$$\frac{I}{I'} = \frac{E}{2R} \frac{(3R)}{E(2)} = \frac{3}{4}$$

50. Ans (4)

$$\frac{1}{v} - \frac{1}{u} = \frac{1}{f} \Rightarrow u = -\infty, v = -400 \text{ cm}$$

$$f = -400 \text{ cm}$$

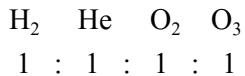
$$P = \frac{100}{-400} = -0.25 \text{ D [Concave]}$$

SUBJECT : CHEMISTRY

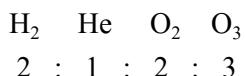
SECTION-A

51. Ans (3)

Moles of gases



Ratio of atoms of gases



52. Ans (4)

$$r \propto \frac{n^2}{z}$$

53. Ans (3)

Fact

54. Ans (1)

$$Q = 0$$

$$\Delta E = W$$

55. Ans (4)

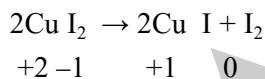
$$\Delta H^\circ = \Delta U^\circ + \Delta n_g RT$$

$$\Delta n_g = 0$$

$$\Delta H^\circ = \Delta U^\circ$$

For 2 moles = $2 \times -185 \text{ KJ}$

56. Ans (1)



57. Ans (3)

$$r_g = 2 r_{CO_2} \Rightarrow \frac{r_g}{r_{CO_2}} = \frac{2}{1}$$

As we know, rate of diffusion $\propto \frac{1}{\sqrt{M_w}}$

$$\frac{2}{1} = \sqrt{\frac{44}{M_w}} \Rightarrow \frac{4}{1} = \frac{44}{M_w}$$

$$\Rightarrow M_w = 11$$

58. Ans (2)

$$1 \text{ mol} \dots \frac{N_A}{4} \text{ unit cells}$$

$$0.1 \text{ mol} \dots \frac{N_A}{4} \times 0.1 \text{ unit cells}$$

$$= 0.025 N_A$$

59. Ans (2)

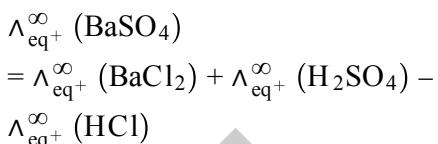
$$\log k = \log A - \frac{E_a}{2.303R} \cdot \frac{1}{T}$$

$$\text{slope} = -\frac{E_a}{2.303R}$$

60. Ans (1)

Zn is strong reducing agent compare to Fe.

61. Ans (3)



62. Ans (1)

$$\Delta T_f = 9.3$$

$$\Delta T_f = \frac{i K_f \times W_B \times 1000}{M_B \times W_A}$$

$$9.3 = \frac{1 \times 1.86 \times 50 \times 1000}{62 \times (200 - n)}$$

$200 - x$ = mass of solvent in the solution.

$$9.3 (200 - n) = 1500$$

$$1860 - 9.3n = 1500$$

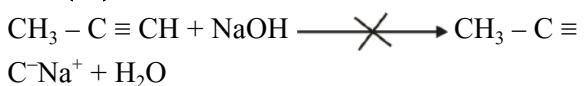
$$n = \frac{360}{9.3} = 38.7 \text{ g}$$

64. Ans (2)

Reactivity towards EAR $\propto e^-$ density in
(C = C) of alkene system $\propto \frac{+M, +H, +I}{-M, -H, -I}$

In (a) $\rightarrow +H$, (b) \rightarrow No group (c) $\rightarrow -I$
(d) $\rightarrow -M$

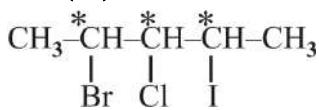
65. Ans (4)



H_2O is more acidic than $\text{CH}_3 - \text{C} \equiv \text{CH}$

\therefore reaction will not go in forward direction and propyne does not react with NaOH.

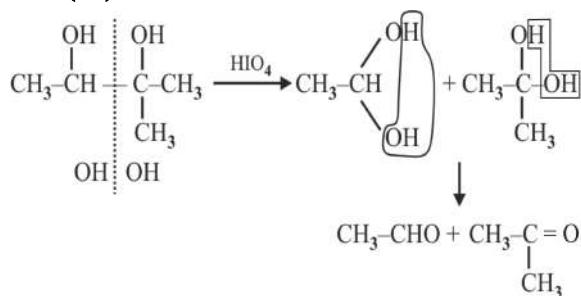
66. Ans (3)



Chiral C (n) = 3, unsymmetrical compound.

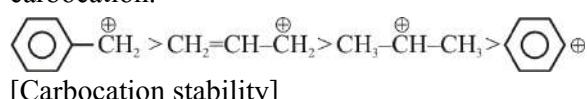
No. of optically active isomers = 2^n
= $2^3 = 8$

67. Ans (2)

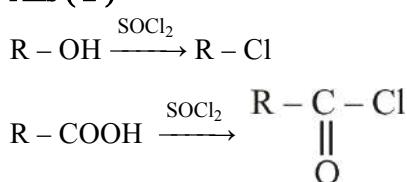


68. Ans (1)

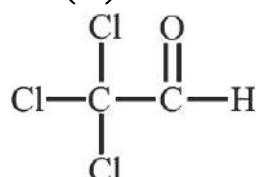
Reactivity towards $\text{S}_{\text{N}}^1 \propto$ stability of carbocation.



70. Ans (2)



71. Ans (3)



does not show Cannizaro reaction but shows haloform reaction bcoz $-\text{CCl}_3$ is better leaving group than $-\text{H}$.

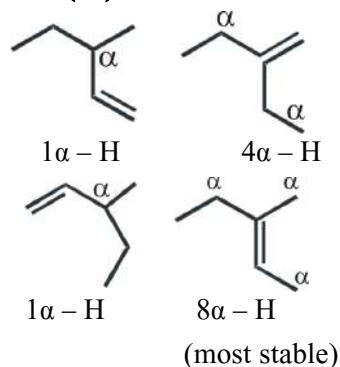
72. Ans (1)

Boiling point of alcohol is more than amine due to stronger H-bonding between alcohol molecules.

Among isomeric amine order of boiling point is :-

1° Amine > 2° Amine > 3° Amine

73. Ans (4)



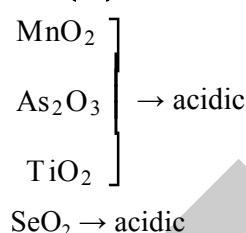
74. Ans (1)

$\text{N} \equiv \text{N} \Rightarrow 6 \text{ e}^-$ involved in sharing.

75. Ans (1)

Lithium is the only alkali metal which forms nitride

76. Ans (4)



79. Ans (1)

NCERT XIIth Pg # 251, Para. 9.5.4

80. Ans (2)

$\text{Gd} \Rightarrow [\text{Xe}] 4f^7 5d^1 6s^2$

$\Rightarrow \text{Gd}^{+3} \Rightarrow [\text{Xe}] \text{ df}^7$

unpaired $e^- = 7 \Rightarrow$ maximum unpaired e^- .

81. Ans (4)

$\text{Al}(\text{OH})_3 \Rightarrow$ Amphoteric hydroxide

$\text{LiOH} \Rightarrow$ Basic hydroxide

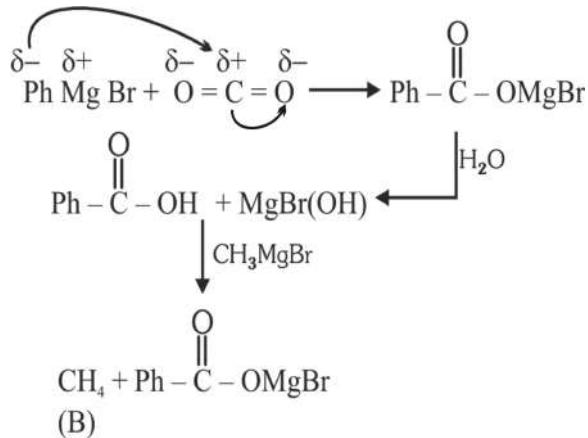
$\text{Mg}(\text{OH})_2 \Rightarrow$ Basic hydroxide

$\text{Be}(\text{OH})_2 \Rightarrow$ Amphoteric hydroxide

82. Ans (4)

Ca is extracted through electro metallurgy

85. Ans (1)



SECTION-B

87. Ans (2)



s 3s



C C 2C

$$K_{sp} = [\text{Al}^{+3}] [\text{Cl}^-]^3$$

$$K_{sp} = (S)(2C)^3$$

$$S = \frac{K_{sp}}{8C^3}$$

88. Ans (2)

For Adsorption

$$\Delta H < 0, \Delta S < 0$$

$$\Delta G < 0$$

89. Ans (1)

$\text{Br}_2/\text{H}_2\text{O}$ oxidise aldehyde group of glucose to – COOH group.

90. Ans (1)

Hydrolysis of ester is S_NAE reaction

Reactivity $\propto \delta^{\oplus}$ on $\text{C}=\text{O}$ carbon.

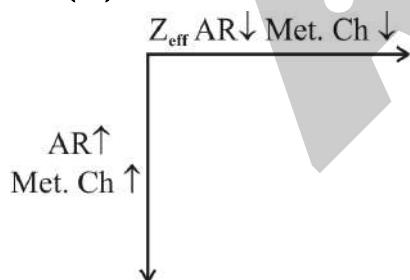
$$\text{Reactivity} \propto \frac{-M, -H, -I}{+M, +H, +I}$$

Reactivity $\propto -M > -H > -I >$ No group $> +I > +H > +M$.

91. Ans (2)

$R_f \propto$ distance moved by substance from base line.

93. Ans (4)



96. Ans (4)

$[\text{CrBr}(\text{NH}_3)_5] \text{SO}_4$ and $[\text{Cr}(\text{SO}_4)(\text{NH}_3)_5] \text{Br}$ are ionisation isomers.

97. Ans (2)

NCERT Class XII, Part-I, Pg # 224

99. Ans (1)

$$\frac{W}{V}\% = \frac{W}{W} \times d$$

$$\frac{W}{W}\% = \frac{\frac{W}{V}\%}{d} \Rightarrow \frac{W}{W}\% = 50\%$$

$$\frac{W}{W}\% = \frac{\text{W of solute}}{\text{W of solution}} \times 100$$

$$50 = \frac{W}{46} \times 100 \Rightarrow W = 23 \text{ gm}$$

100. Ans (1)

$$\alpha = \frac{\Lambda_m^C}{\Lambda_m^o}$$

SUBJECT : BOTANY

SECTION - A

101. Ans (2)

NCERT XII Pg # 74

102. Ans (3)

NCERT XII Pg # 112

103. Ans (2)

NCERT XII Pg # 111

104. Ans (4)

NCERT XII Pg # 90, 91

105. Ans (1)

NCERT XII Pg # 118

106. Ans (3)

NCERT XII Pg # 106

107. Ans (3)

NCERT XII Pg # 86

108. Ans (3)

NCERT XII Pg # 83 last para

109. Ans (2)

NCERT XII Pg # 96

110. Ans (3)

NCERT XII Pg # 174

111. Ans (4)

NCERT XII Pg # 171

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|--|---|
| <p>112. Ans (4)
NCERT XI Pg # 75 & 79</p> <p>113. Ans (3)
NCERT XI Pg # 71</p> <p>114. Ans (2)
NCERT XI Pg # 75, 79, fig. 5.21 (a), (d) and (f)</p> <p>115. Ans (2)
NCERT XI Pg # 93, 94 Fig. 6.8 a</p> <p>116. Ans (4)
NCERT XII Pg # 30, fig. 2.1 (a), 34, 36, 38, 39
Nucellar adventive embryony is found in Citrus and mango.</p> <p>117. Ans (3)
NCERT XII Pg # 25</p> <p>118. Ans (4)
NCERT XII Pg # 27, 29, 31, 34</p> <p>119. Ans (3)
NCERT XI Pg # 178, Table 11.1</p> <p>120. Ans (4)
NCERT XI Pg # 211, Fig. 13.4</p> <p>121. Ans (2)
NCERT XI Pg # 231, Pyruvic acid</p> <p>122. Ans (4)
NCERT XII Pg # 244</p> <p>123. Ans (2)
NCERT XII Pg # 264</p> <p>124. Ans (1)
NCERT XII Pg # 263</p> <p>125. Ans (3)
NCERT XII Pg # 271</p> <p>126. Ans (4)
NCERT XII 272</p> <p>127. Ans (3)
NCERT Pg # 243, 246-247</p> <p>128. Ans (2)
NCERT XII Pg # 220 Fig. 13.1</p> | <p>129. Ans (3)
NCERT XI Pg # 133, 135, 137, 138</p> <p>130. Ans (2)
NCERT XI Pg # 128, 132</p> <p>131. Ans (2)
NCERT Pg # 167, 171</p> <p>132. Ans (3)
NCERT XI Pg # 11 Table</p> <p>133. Ans (4)
NCERT Pg # 21, 23, 24</p> <p>134. Ans (1)
NCERT XI Pg # 34</p> <p>135. Ans (2)
NCERT XI Pg # 30</p> |
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SECTION - B

136. **Ans (2)**
NCERT XII Pg # 83
137. **Ans (3)**
NCERT XII Pg # 187
138. **Ans (1)**
NCERT XII Pg # 116
139. **Ans (4)**
NCERT XI Pg # 75, 81
Axile placentation is found in Aloe, Colchicum, Onion, *Asparagus* and *Gloriosa* and Lemon.
140. **Ans (4)**
NCERT XI Pg # 88, 96, 97
141. **Ans (2)**
NCERT XII Pg # 4
142. **Ans (3)**
NCERT XII Pg # 21, 26
143. **Ans (3)**
NCERT XI Pg # 197
144. **Ans (4)**
NCERT Pg # 218
145. **Ans (3)**
NCERT Pg # 244 Fig. 15.7

146. **Ans (1)**
NCERT XII Pg # 236
147. **Ans (3)**
NCERT XII Pg # 263
148. **Ans (1)**
NCERT XI Pg # 167, 168
B and F are true.
149. **Ans (1)**
NCERT XI Pg # 26
150. **Ans (3)**
NCERT XI Pg # 38, 39

SUBJECT : ZOOLOGY

SECTION - A

151. **Ans (3)**
NCERT XIIth, Page # 155
152. **Ans (2)**
NCERT XIIth, Page # 158, 159
153. **Ans (3)**
NCERT XIth, Page 143
154. **Ans (4)**
NCERT XI Page # 147
155. **Ans (2)**
NCERT XI Page # 144
156. **Ans (4)**
NCERT, Page # 64
157. **Ans (1)**
NCERT Page # 60
158. **Ans (3)**
NCERT Page # 44
160. **Ans (1)**
NCERT Page # 271
161. **Ans (1)**
NCERT Page # 275

162. **Ans (3)**
NCERT Page # 289
163. **Ans (3)**
NCERT Page # 285
164. **Ans (1)**
NCERT Page # 102
165. **Ans (1)**
NCERT Page # 258
166. **Ans (1)**
NCERT Page # 260
167. **Ans (4)**
NCERT Page # 262
168. **Ans (3)**
NCERT Page # 298
169. **Ans (4)**
NCERT Page # 312
170. **Ans (1)**
NCERT Page # 131
171. **Ans (3)**
NCERT Page # 132
172. **Ans (3)**
NCERT Page # 196
173. **Ans (2)**
NCERT Page # 211
174. **Ans (2)**
NCERT Page # 197 Last para
175. **Ans (2)**
NCERT Page # 200
176. **Ans (1)**
NCERT, Page # 49(E), 48(H)
177. **Ans (1)**
NCERT, Page # 51

178. **Ans (4)**
NCERT Page # 57
179. **Ans (1)**
NCERT Page # 114(E), 115 (H)
180. **Ans (4)**
NCERT Page # 116(E), 117(H)
181. **Ans (4)**
NCERT Page # 321(E), 320(H)
182. **Ans (1)**
NCERT Page # 323
183. **Ans (3)**
NCERT Page # 331
184. **Ans (4)**
NCERT Page # 335(E), 336(H)
185. **Ans (3)**
NCERT Page # 335/336(E), 336(H)
188. **Ans (3)**
NCERT Page # 52
189. **Ans (3)**
NCERT Page # 272
190. **Ans (4)**
NCERT Page # 282
191. **Ans (2)**
NCERT Page # 294
192. **Ans (3)**
NCERT Page # 103
193. **Ans (1)**
NCERT Page # 313
194. **Ans (4)**
NCERT Page # 133
Hints: Except mole and lemur
195. **Ans (3)**
NCERT Page # 211 & 213
196. **Ans (3)**
NCERT Page # 211 & 213
198. **Ans (3)**
NCERT Page # 114 and 115(E)

SECTION - B

186. **Ans (2)**
NCERT XII Page # 149
187. **Ans (4)**
NCERT Biomolecules (152, 153)