

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.	2	4	3	3	1	4	3	3	4	1	4	3	3	3	2	4	1	1	3	3	2	2	4	3	1	1	3	3	4	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.	1	2	3	3	3	1	4	1	2	4	3	4	3	2	3	4	2	2	4	3	2	1	1	4	1	1	2	3	4	4
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.	4	3	4	2	2	3	2	1	2	2	2	2	1	2	1	2	2	4	4	4	4	3	2	2	4	3	4	4	1	2
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.	3	3	3	3	4	1	1	1	3	2	4	3	4	3	1	2	2	3	1	3	2	2	1	1	2	4	2	4	2	1
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.	3	3	3	3	3	3	2	4	3	4	1	4	4	4	3	3	3	2	4	2	2	2	2	4	2	3	4	3	3	2
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
A.	3	2	4	2	1	3	3	4	3	3	4	1	1	3	1	3	2	4	4	1	4	4	3	3	1	2	3	2	2	1

HINT - SHEET

- Ans (2)**
Acidic Nature \propto +ve O.S. of Non-Metal
- Ans (4)**
Due to lanthanoid contraction size of 4d \approx 5d series elements
- Ans (3)**
Iodine can show oxidation state from -1 to +7
- Ans (3)**
 $B_2 = \text{Total } e^- = 10$
 $\sigma_{1s}^2 \sigma_{1s}^{*2} \sigma_{2s}^2 \sigma_{2s}^{*2} [\pi_{2p_x}^1 = \pi_{2p_y}^1]$
B.O = 1 & Paramagnetic
- Ans (1)**
Ionic character $\propto \frac{1}{\text{Polarising power of cation}}$
As positive oxidation state increases or, size of cation decreases, polarizing power of cation increases hence, the correct order of ionic character is :
 $MCl > MCl_2 > MCl_3$
- Ans (4)**
NCERT XIth Pg # 104, Table 4.2

- Ans (3)**
 $B. E. \propto \frac{1}{\text{no. of L. P.}}$
NCERT XI Pg. # 108 (Part-I)
- Ans (3)**

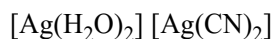
$$\begin{array}{c} \text{O} \\ || \\ \text{N}-\text{OH} \\ \downarrow \\ \text{O} \end{array}$$
 Covalency = 4
- Ans (4)**
 $\mu = \text{NH}_3 > \text{NF}_3 > \text{BF}_3$
 $\mu = 1.47 \text{ D } \mu = 0.24 \text{ D } \mu = 0$
- Ans (1)**
Ionisation Isomerism
- Ans (4)**
 $[\text{Cu}(\text{NH}_3)_4]^{+2}$
 $\text{Cu}^{+2} = 4s^0 3d^9$



dsp^2 , paramagnetic

12. **Ans (3)**

IUPAC



Coordination number = 2,

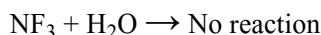
Oxidation state = Ag^{+1}

Diaquasilver(I) dicyanidoargentate(I)

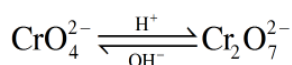
13. **Ans (3)**

As per surface area.

14. **Ans (3)**



15. **Ans (2)**



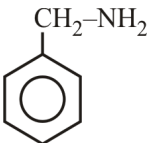
16. **Ans (4)**

NCERT-XII, Part-II ; Page-321, 322

17. **Ans (1)**

NCERT XII, Pg. # 271, Part - 2

18. **Ans (1)**

Due to localized lone pair  is the strongest base

20. **Ans (3)**

Fact

22. **Ans (2)**

Fact

26. **Ans (1)**

Fact

28. **Ans (3)**

Theory based NCERT page no. 349

31. **Ans (1)**

$$\therefore 2\pi r = 2\lambda$$

$$2\pi r = 2x$$

$$r = \frac{x}{\pi}$$

32. **Ans (2)**

$$\Delta x \cdot m \Delta V = \frac{h}{4\pi}$$

$$\Rightarrow \Delta V = \frac{h}{4\pi m(\Delta x)}$$

$$= \Delta V = 0.57 \times 10^7 \text{ ms}^{-1}$$

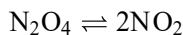
33. **Ans (3)**

By LCP,

If pressure \uparrow , Eqm will shift where volume is less

$V_{\text{ice}} > V_{\text{water}} \Rightarrow$ Forward direction will be forward.

34. **Ans (3)**



$$\begin{matrix} 1 & 0 \\ 1 - \alpha & 2\alpha \end{matrix}$$

$$K_p = \frac{(n_{\text{NO}_2})^2}{(n_{\text{N}_2\text{O}_4})} \times \left[\frac{P_1}{\Sigma n} \right]^1$$

For 33% dissociation:

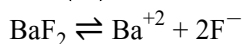
$$K_p = \frac{(2 \times 33)^2}{67} \times \left[\frac{P_1}{133} \right]^1$$

For 50% dissociation:

$$K_p = \frac{(2 \times 50)^2}{50} \times \left[\frac{P_2}{150} \right]^1$$

$$\therefore \frac{P_1}{P_2} = \frac{133 \times 67 \times (2 \times 50)^2}{(2 \times 33)^2 \times 150 \times 50} = \frac{8}{3}$$

35. **Ans (3)**

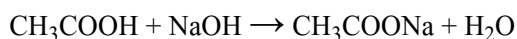


$$K_{\text{sp}} = [\text{Ba}^{+2}] (0.1)^2$$

$$[\text{Ba}^{+2}] = \frac{10^{-6}}{(0.1)^2}$$

$$[\text{Ba}^{+2}] = 10^{-4} \text{ M}$$

36. **Ans (1)**



$$\begin{matrix} 0 \text{ millimoles} & 5 \text{ millimoles} & 0 & 0 \\ \downarrow & \downarrow & & \\ 5 \text{ millimoles} & 0 & 5 \text{ millimoles} & \end{matrix}$$

so final solution is buffer having (salt) = (acid)

$$\text{pH} = \text{pK}_a + \log \frac{[\text{Salt}]}{[\text{Acid}]}$$

since (Salt) = (Acid)

$$\Rightarrow \text{pH} = \text{pK}_a = 4.7$$

37. **Ans (4)**

$$\Delta S = 4 \times \log \left(\frac{20}{2} \right) \times 2.3 = 9.2$$

38. **Ans (1)**

In adiabatic expansion temperature decrease and isothermal expansion temperature is constant, area under the curve \propto work.

39. **Ans (2)**

$\text{Fe}(\text{OH})_3$ is lyophobic sol so can be prepared by special method.

40. Ans (4)

$$\Delta G_3^0 = \Delta G_2^0 - \Delta G_1^0$$

$$E_3^0 = 3E_2^0 - 2E_1^0 = 0.772$$

41. Ans (3)

$$\frac{W_1}{E_1} = \frac{W_2}{E_2} \Rightarrow \frac{W_1}{W_2} = \frac{108}{31.5}$$

42. Ans (4)

$$K = \frac{2.303}{t} \log \left(\frac{(n-1)P^0}{nP^0 - P_t} \right)$$

43. Ans (3)

$$K = \frac{2.303}{t} \log \left(\frac{a}{a-x} \right)$$

$$K = \frac{2.303}{32} \log \left(\frac{100}{1} \right)$$

$$t = \frac{2.303 \times 16}{2.303} \log \left(\frac{100}{0.1} \right) = 48 \text{ min}$$

44. Ans (2)

The one which shows negative deviation from Raoult's law forms maximum boiling azeotropes.

45. Ans (3)

$$P_S = P_A^0 X_A + P_B^0 (1 - X_A) X_B = 0$$

If $X_A = 0$ then $P_S = P_A^0 (1 - X_B) + P_B^0 X_B$

$$P_S = P_B^0 \quad P_S = P_A^0$$

$$P = 254 - 119 X_A$$

$$P = 254 - 119 X_0$$

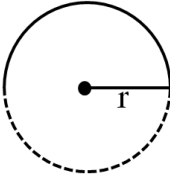
$$P = P_B^0 = 254$$

$$P = 254 - 119 (1 - X_B)$$

$$P = P_A^0 = 254 - 119 = 135$$

46. Ans (4)

2M, L



$$\pi r = L$$

$$\therefore r = \frac{L}{\pi}$$

$$\therefore I = \frac{2ML^2}{\pi^2}$$

47. Ans (2)

$$I_{\text{Remaining}} = I_{\text{Large}} - I_{\text{Small}}$$

$$I_{\text{Remaining}} = \frac{(9m)R^2}{2} - \left\{ \frac{m'}{2} \left(\frac{R}{3} \right)^2 + m' \left(\frac{2R}{3} \right)^2 \right\}$$

$$\therefore m' = m$$

$$\therefore I_{\text{Remaining}} = 4mR^2$$

48. Ans (2)

G = galvanometer resistance

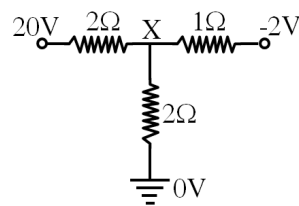
$$= \frac{\text{current sensitivity}}{\text{voltage sensitivity}} = \frac{5}{1} = 5\Omega$$

$$\text{Full scale deflection current } i_g = 100 \times \frac{1\text{mA}}{5} = 20\text{mA}$$

To convert in to voltmeter of range $1\text{V} \times 100 = 100\text{V}$

$$R = \frac{V}{I_g} - G \Rightarrow R = \frac{100}{20 \times 10^{-3}} - 5 = 4995\Omega$$

49. Ans (4)



Using KCL of junction X :-

$$\frac{X-20}{2} + \frac{X-0}{2} + \frac{X+2}{1} = 0$$

$$X - 20 + X + 2X + 4 = 0$$

$$4X = 16 \Rightarrow X = 4\text{V}$$

$$I_{1\Omega} = \frac{4 - (-2)}{1} = 6\text{A}$$

50. Ans (3)

$$P = \frac{V_1^2}{R_1} = \frac{V_2^2}{R_2} \Rightarrow \frac{R_1}{R_2} = \left(\frac{V_1}{V_2} \right)^2 = \left(\frac{220}{110} \right)^2 = \frac{4}{1}$$

51. Ans (2)

$$0 = \frac{6k}{1} + \frac{3kQ}{1} + \frac{2kQ}{2}$$

$$Q = -\frac{3}{2}C$$

52. Ans (1)

$$q = Ze$$

$$= 79 \times 1.6 \times 10^{-19} \text{C}$$

$$V = \frac{kq}{r}$$

$$= \frac{9 \times 10^9 \times 1.26 \times 10^{-17}}{6.6 \times 10^{-15}} = 1.72 \times 10^7 \text{V}$$

53. Ans (1)

Interference and diffraction can be observed for both transverse and longitudinal waves, however polarization can occur only in transverse waves.

54. Ans (4)

$$\beta = \frac{\lambda D}{d}$$

$$= \frac{2 \times 10^{-6} \times 0.9}{0.3 \times 10^{-3}} = 6 \times 10^{-3} \text{m}$$

$$\beta = 6 \text{mm}$$

55. Ans (1)

capacitance of small drop $C = 4\pi\epsilon_0 r$

64 such drops combine to form 1 large drop.

\therefore Volume of large drop = $64 \times$ volume of small drop

$$\frac{4}{3}\pi R^3 = 64 \times \frac{4}{3}\pi r^3$$

$$R = 4r$$

\therefore capacitance of big drop

$$C_{\text{big}} = 4\pi\epsilon_0 R = 4\pi\epsilon_0 4r = 4C$$

Formula method :

$$C = n^{1/3} C_0 = 64^{1/3} C_0 = 4 C_0$$

56. Ans (1)

$$\text{efficiency} = \frac{P_0}{P_i} \times 100$$

$$60 = \frac{(\text{mgh/time})}{P_i} \times 100$$

$$P_i = \frac{100}{60} \frac{\text{mgh}}{3600} = \frac{5}{3} \times \frac{36000 \times 10 \times 90}{3600} = 15 \text{ KW}$$

57. Ans (2)

$$\frac{2T}{r} = h\rho g$$

$$r = \frac{2T}{\rho g h} = \frac{2 \times 0.07}{10^3 \times 10 \times 0.4} = 0.035 \text{ mm}$$

$$D = 2r = 0.07 \text{ mm}$$

58. Ans (3)

$$\rho = \frac{m}{v} = \frac{4.237 \text{ g}}{2.5 \text{ cm}^3} = 1.6948 \text{ g/cm}^3$$

rounding off the number = 1.7 g/cm^3

59. Ans (4)

$$H_n = e^{2n} H_0$$

$$= e^4 H_0 = \left(\frac{1}{2}\right)^4 \times 20 = \frac{20}{16} = \frac{5}{4} = 1.25 H_0$$

60. Ans (4)

Output of OR gate is 0 when all inputs are 0 &

output is 1 when atleast one of the input is 1.

Observing output x :- It is 0 when all inputs are 0 & it is 1 when atleast one of the inputs is 1.

\therefore OR gate

61. Ans (4)

$$F_T - mg = ma$$

$$\frac{v dm}{dt} - mg = ma$$

$$\frac{dm}{dt} \frac{m(g+a)}{v} = \frac{2000(10+10)}{500} = 80 \text{ kgs}^{-1}$$

62. Ans (3)

$$v = v_0 + mx$$

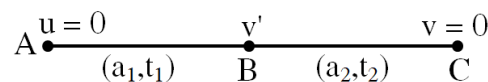
$$\frac{dv}{dx} = m$$

$$\text{acceleration} = v \frac{dv}{dx} = (v_0 + mx) m$$

(straight lines)

(with +ve slope & +ve intercept).

63. Ans (4)



$$A \rightarrow B$$

$$v' = a_1 t_1 \quad \dots(1)$$

$$B \rightarrow C$$

$$v' = a_2 t_2 \quad \dots(2)$$

$$\text{Solve (1) \& (2)} \quad \frac{t_1}{t_2} = \frac{a_2}{a_1} = \frac{6}{4} = \frac{3}{2}$$

64. Ans (2)

Newton's law of cooling :

$$\frac{\Delta T}{\text{time}} = K \left(\frac{\theta_1 + \theta_2}{2} - \theta_0 \right)$$

$$\frac{61 - 59}{4} = K \left[\frac{61 + 59}{2} - 30 \right] \quad \dots(1)$$

$$\frac{51 - 49}{t} = K \left[\frac{51 + 49}{2} - 30 \right] \quad \dots(2)$$

$$\text{On dividing, (1) \& (2)} \Rightarrow \frac{t}{4} = \frac{30}{20} \Rightarrow t = 6 \text{ min.}$$

65. Ans (2)

$$\text{Breaking stress} = \frac{F}{A}$$

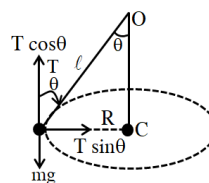
$$\frac{1.5 \times 10^5}{\pi \left(\frac{3}{2}\right)^2} = \frac{F}{\pi \left(\frac{1.5}{2}\right)^2}$$

$$F = \frac{1.5 \times 10^5}{4} = 0.375 \times 10^5 \text{ N}$$

66. Ans (3)

$$T \sin \theta = \frac{mv^2}{R} \quad \dots(1)$$

$$T \cos \theta = mg \quad \dots(2)$$



$$\text{Divide equation (1) by equation (2)} : \tan \theta = \frac{v^2}{Rg}$$

$$\therefore v = \sqrt{Rg \tan \theta}$$

$$\therefore \tan \theta = \frac{1}{\cot \theta}$$

$$\therefore v = \sqrt{\frac{Rg}{\cot \theta}}$$

67. Ans (2)

$$B_0 = \frac{E_0}{C}$$

$$= \frac{100}{3 \times 10^8} = 0.33 \times 10^{-6} \text{ T}$$

68. Ans (1)

$$E_{\text{avg}} = -L \frac{\Delta i}{\Delta t}$$

$$E_{\text{avg}} = -(5 \times 10^{-3}) \left(\frac{10 - 20}{0.1} \right)$$

$$E_{\text{avg}} = 0.5 \text{ V}$$

69. Ans (2)

If current leads voltage and angle between their phasors $< \frac{\pi}{2}$, it indicates that elements in circuit must contain R and C. It may contain L also, but then $X_C > X_L$. From given options, L is not there, so elements are R & C

70. Ans (2)

$$\frac{1}{\lambda} = \frac{1}{912 \text{ Å}} \left(\frac{1}{1^2} - \frac{1}{(3)^2} \right)$$

$$\frac{1}{\lambda} = \left(\frac{8}{9} \right) \left(\frac{1}{912 \text{ Å}} \right)$$

$$\lambda = \frac{9 \times 912}{8} \text{ Å} = 1026 \text{ Å}$$

71. Ans (2)

Neutral point will be near to the small current carrying wire and in outside at which

$$\frac{\mu_0 9}{2\pi x} = \frac{\mu_0 \times 16}{2\pi(7+x)} \Rightarrow x = 9 \text{ cm}$$

∴ From wire of 16A current $d = 7 + 9 = 16 \text{ cm}$

72. Ans (2)

$$B = \mu_0 n I$$

$$\Rightarrow \frac{B_1}{B_2} = \frac{n_1 i_1}{n_2 i_2} \Rightarrow \frac{6.28 \times 10^{-2}}{B_2} = \frac{200 \times i}{100 \times i} \times 2$$

$$B_2 = \frac{6.28 \times 10^{-2}}{4} = 1.57 \times 10^{-2} \text{ Wb/m}^2$$

73. Ans (1)

$$M = N i A$$

$$= 2 \times 0.5 \times \pi r^2$$

$$6.28 = (2\pi r) \times 2$$

$$r = \frac{6.28}{4\pi} = \frac{1}{2}$$

$$M = 1 \times \pi \times \frac{1}{4} = \frac{\pi}{4} \text{ Am}^2$$

74. Ans (2)

$$\frac{1}{\rho} = \text{constant}$$

$$\frac{1}{\rho T} = \text{constant}$$

$$\rho T = \text{constant}$$

$$\rho T \propto P = \text{constant}$$

isobaric

$$\frac{P}{\rho} = \frac{RT}{M}$$

$$\rho T = \frac{RT}{R}$$

75. Ans (1)

$$\Delta W = nR\Delta T = 3 \times \frac{25}{3} \times 100 = 2500 \text{ J}$$

$$\Delta U = nC_v \Delta T = 3 \times \frac{5R}{2} \times 100 = 6250 \text{ J}$$

$$Q = \Delta U + W = 8750 \text{ J}$$

$$\frac{\Delta U}{\Delta W} = \frac{6250}{2500} = 2.5$$

76. Ans (2)

They are in same phase after n oscillation by large length pendulum and $(n+1)$ oscillation by small length pendulum.

$$\therefore (n+1) \sqrt{\ell_s} = n \sqrt{\ell_e}$$

$$\Rightarrow (n+1) \sqrt{1} = n \sqrt{25}$$

$$\Rightarrow n+1 = 5n \Rightarrow 1 = 4n$$

$$n = \frac{1}{4}$$

$$\therefore \text{for smaller pendulum } \Rightarrow n+1 = 1 + \frac{1}{4} = \frac{5}{4}$$

77. Ans (2)

$$v = \sqrt{\frac{T}{\mu}}$$

$$v = \frac{w}{K} 30 \text{ m/s}$$

$$30 = \sqrt{\frac{T}{0.16}}$$

$$30 = \sqrt{\frac{T \times 100}{16}}$$

$$\therefore T = 144 \text{ N}$$

78. Ans (4)

Let $R_1 = R$, then $R_2 = 2R$

$$\frac{1}{f} = (\mu - 1) \left(\frac{1}{R_1} - \frac{1}{R_2} \right)$$

$$\frac{1}{6} = (1.5 - 1) \left(\frac{1}{R} - \frac{1}{-2R} \right)$$

$$R = R_1 = 4.5 \text{ cm}$$

$$R_2 = 9 \text{ cm}$$

79. Ans (4)

$${}^2\mu_1 \times {}^3\mu_2 \times {}^4\mu_3 = \frac{\mu_1}{\mu_2} \times \frac{\mu_2}{\mu_3} \times \frac{\mu_3}{\mu_4} = \frac{\mu_1}{\mu_4} = {}^4\mu_1$$

80. Ans (4)

$$\text{Value of } g = g_s \left(1 + \frac{h}{R}\right)^{-2}$$

$$= g_s(1+2)^{-2} = \frac{g_s}{9}$$

Here g_s = gravitational acceleration at surface

$$\text{Force} = mg = 90 \times \frac{g_s}{9} = 100 \text{ N}$$

82. Ans (3)

Since only 6 different wavelength are excited, therefore highest excited state is $n = 4$.

Two wavelengths are shorter than λ_0 , initially atoms were in excited state $n = 2$

Corresponding transitions are $4 \rightarrow 3$, $4 \rightarrow 2$, $4 \rightarrow 1$, $3 \rightarrow 2$, $3 \rightarrow 1$, $2 \rightarrow 1$.

83. Ans (2)

$$\text{B.E of Helium} = (2m_p + 2m_n - m_{\text{He}}) c^2 = 28.4 \text{ MeV}$$

84. Ans (2)

$$\lambda = \frac{h}{mv}$$

$$\lambda_p = \lambda_a$$

$$m_p v_p = m_\alpha v_\alpha$$

$$m_p v_p = 4m_p v_\alpha \quad (m_\alpha = 4m_p)$$

$$\frac{v_p}{v_\alpha} = 4 \quad (\text{Option 2) is correct}$$

85. Ans (4)

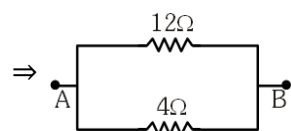
$$\text{Measured value} = 10 \text{ mm} + 4(0.1 \text{ mm})$$

$$= 10.4 \text{ mm}$$

$$= 1.04 \text{ cm}$$

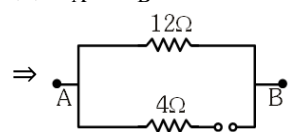
86. Ans (3)

(i) $V_A > V_B \Rightarrow$ diode is in FB



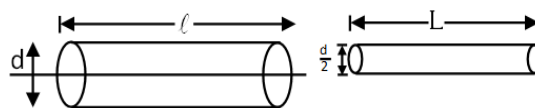
$$\Rightarrow R_{AB} = 3\Omega$$

(ii) $V_A < V_B \Rightarrow$ diode is in RB



$$\Rightarrow R_{AB} = 12\Omega$$

87. Ans (4)



Initial volume = final volume

$$\frac{\pi d^2 l}{4} = \frac{\pi d^2 L}{16} \quad [L = 4l] \quad A_f = \frac{A_i}{4}$$

$$R_i = \frac{\rho l}{A_i} \quad R_f = \rho \left(\frac{4l}{A_i}\right) = 16 R_i$$

88. Ans (4)

$$f = \frac{1}{0.2} \text{ cm}$$

$$P = \frac{100}{f} = 100 \times 0.2 = 20 \text{ D}$$

89. Ans (1)

$$x_{\text{cm}} = \frac{A_1 x_1 - A_2 x_2}{A_1 - A_2}$$

$$A_1 = \pi(3R)^2 = 9\pi R^2$$

$$A_2 = \pi R^2$$

$$x_1 = 0, x_2 = 2R$$

$$x_{\text{cm}} = \frac{0 - \pi R^2 \times 2R}{9\pi R^2 - \pi R^2}$$

$$x_{\text{cm}} = -\frac{R}{4}$$

90. Ans (2)

$$\text{The output (Y)} = \overline{\overline{A} \cdot \overline{B}} = A + B$$

91. Ans (3)

NCERT-XI, Pg. # 32

92. Ans (3)

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93. Ans (3)

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