

## LEADER & ACHIEVER COURSE

PHASE : MLA, MLB, MLC, MLQ, MLR, MLS, MLT, MLU, MLV, MAZA, MAZB, MAZC, MAZD, MAZE, MAZF, MAZP, MAZQ & MAZR

TARGET : PRE-MEDICAL 2024

Test Type : MAJOR

Test Pattern : NEET (UG)

TEST DATE : 21-03-2024

### 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	4	3	2	1	4	2	2	2	4	4	1	2	3	1	1	1	2	2	1	3	2	4	1	3	3	2	4	3	2
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	4	3	1	1	1	2	1	4	4	1	4	1	4	4	1	3	4	2	1	3	3	2	2	3	3	4	1	2	2
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.	1	4	4	4	3	4	4	2	1	4	1	1	4	3	3	1	1	3	4	2	2	1	3	1	1	4	1	1	1	3
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	1	4	1	3	2	4	4	4	2	2	3	2	1	4	3	1	2	1	1	1	3	2	2	1	4	4	1	4	2
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	1	2	2	3	2	1	1	2	1	1	4	3	1	3	4	3	1	2	1	2	3	3	3	3	4	1	2	2	1
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.	1	2	2	3	2	3	1	1	1	2	1	1	3	4	2	2	1	3	3	3	2	4	4	1	2	2	4	4	2	2
Q.	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200										
A.	2	4	4	4	2	1	4	4	1	2	3	1	4	1	4	2	4	2	3	2										

### HINT - SHEET

#### SUBJECT : PHYSICS

#### SECTION-A

1. Ans ( 3 )

$$\text{emf} = \frac{-d\phi}{dt}$$

2. Ans ( 4 )

$$|e| = -\frac{dQ}{dt}$$

$$e = \frac{d}{dt}(NBA)$$

$$e = N.A \frac{dB}{dt}$$

$$e = 500 \times (10 \times 10^{-2})^2 \times 1$$

$$e = 5 \text{ volt}$$

3. Ans ( 3 )

$$\phi = (B)(\pi r^2) \Rightarrow e = \frac{d\phi}{dt} = (B)(2\pi r) \left( \frac{dr}{dt} \right)$$

$$= (0.025)(2\pi)(2 \times 10^{-2})(10^{-3}) = \pi \mu V$$

4. Ans ( 2 )

$$\text{Induced emf } e = -L \frac{di}{dt}$$

5. Ans ( 1 )

Magnetic energy

$$U = \frac{1}{2} LI^2 \Rightarrow L = \frac{2U}{I^2} = \frac{2 \times 648}{9 \times 9} = 16H$$

$$\text{Induced emf } e = L \left( \frac{\Delta I}{\Delta t} \right)$$

$$= 16 \times \frac{9}{0.45} = 320V$$

6. Ans ( 4 )

$$L = \frac{\mu_0 N^2 A}{\ell}$$

7. Ans ( 2 )

Just after switch is closed inductor offer infinite resistance (i.e. open circuit)

$$(i) I = 0 \quad (ii) I = \frac{E}{R} \quad (iii) I = \frac{E}{2R}$$

8. **Ans ( 2 )**

$$\therefore K = \frac{\phi_s}{\phi_p}$$

If  $K = 1$  then  
 $\phi_s = \phi_p$

9. **Ans ( 2 )**

$$F = \frac{B^2 v \ell^2}{R}$$

10. **Ans ( 4 )**

ac generator is based on the principle of the electromagnetic induction. When a coil is rotated about an axis perpendicular to the direction of uniform magnetic field, an induced emf is produced across it.

11. **Ans ( 4 )**

$$\eta = \frac{P_{out}}{P_{in}} \times 100, \text{ where } P_{in} = V_p I_p$$

$$= \left( \frac{100}{220 \times 0.5} \right) \times 100 = 90\%$$

12. **Ans ( 1 )**

$$I = \frac{P}{4\pi r^2} \approx 0.23 \text{ mW/m}^2$$

13. **Ans ( 2 )**

$$\text{Radiation pressures} = \frac{2I}{C}$$

$$\text{Force } F = \frac{2I}{C} A,$$

$$\text{Momentum} = Ft = \frac{2I}{C} At = \frac{2E}{C}$$

14. **Ans ( 3 )**

$$\text{Intensity, } I = \frac{\text{Power}}{\text{area}} = \frac{P}{4\pi r^2} = \text{average energy}$$

$$\text{density} \times \text{velocity} = \frac{1}{2} \epsilon_0 E_0^2 c$$

$$\therefore E_0 = \sqrt{\frac{2P}{4\pi \epsilon_0 r^2 c}} = \sqrt{\frac{P}{2\pi \epsilon_0 r^2 c}}$$

15. **Ans ( 1 )**

$$r = \frac{\sqrt{2mk}}{qB} = \frac{\sqrt{2mqV}}{qB}$$

$$r = \frac{1}{B} \sqrt{\frac{2mV}{q}}$$

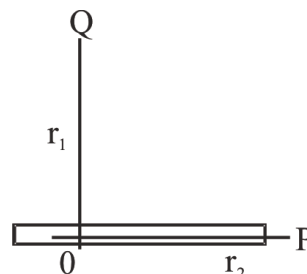
$$r \propto \sqrt{\frac{m}{q}}$$

16. **Ans ( 1 )**

$$B_1 = \frac{\mu_0 M}{4\pi r_1^3}$$

$$B_2 = \frac{2\mu_0 M}{4\pi r_2^3}$$

According to question



$$B_1 = B_2$$

$$\frac{r_1}{r_2} = (2)^{1/3}$$

17. **Ans ( 1 )**

$$F = 3 \times F_{CD}$$

$$= 3 \times IBL$$

$$= 3 \times 2 \times 4 \times 1$$

$$= 24 \text{ N}$$

18. **Ans ( 2 )**

The magnetic field of a solenoid is given by,

$$B = \frac{1}{2} \mu_0 n I [\cos \theta_1 - \cos \theta_2]$$

For a very long current carrying solenoid, the magnetic field at the ends of a very long solenoid is given by ,

$$B = \frac{1}{2} \mu_0 n I = \frac{1}{2} \times \text{Magnetic field at the centre}$$

[ $\because \theta_1 = 90^\circ, \theta_2 = 180^\circ$ ]

19. **Ans ( 2 )**

$$B = \frac{\mu_0 I}{2\pi d} \Rightarrow B \propto \frac{1}{d}$$

20. **Ans ( 1 )**

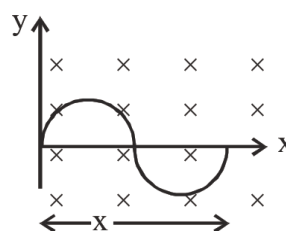
$$\text{Sensitivity} = \frac{\theta}{i} = \frac{NAB}{C}$$

21. **Ans ( 3 )**

$$x_{eff} = 2L$$

$$\text{so } F = IB X_{eff}$$

$$F = 2IBL$$



Hence option (3)

22. Ans (2)

$$\frac{B_{\text{centre}}}{B_{\text{axis}}} = \left(1 + \frac{x^2}{R^2}\right)^{3/2}, \text{ also } B_{\text{axis}} = \frac{1}{8} B_{\text{centre}}$$

$$\Rightarrow \frac{8}{1} = \left(1 + \frac{x^2}{R^2}\right)^{3/2} \Rightarrow 2 = \left(1 + \frac{x^2}{R^2}\right)^{1/2}$$

$$\Rightarrow 4 = 1 + \frac{x^2}{R^2} \Rightarrow 3 = \frac{x^2}{R^2} \Rightarrow x^2 = 3R^2$$

$$\Rightarrow x = \sqrt{3}R$$

23. Ans (4)

Conceptual

24. Ans (1)

$$\vec{v} = (2\hat{i} + 3\hat{j}) \quad \vec{B} = 4\hat{j}$$

$$\theta \neq 90^\circ, 0^\circ, 180^\circ$$

so path will be helix

25. Ans (3)

$$F_{\text{NetC}} = F_D - F_C$$

$$= \frac{\mu_0(30)}{2\pi(3 \times 10^{-2})} - \frac{\mu_0(20)}{2\pi(2 \times 10^{-2})}$$

$$= \frac{\mu_0(10)}{2\pi \times 10^{-2}} - \frac{\mu_0(10)}{2\pi \times 10^{-2}}$$

$$= 0 \text{ N}$$

26. Ans (3)

$$A - s, B - q, C - p, D - r$$

27. Ans (2)

$$B = \mu H \Rightarrow 8 \times 10^{-3} \times 160 = 1.28 \text{ Wb/m}^2$$

28. Ans (4)

$$I = 100 \sin(200 \pi t)$$

$$\Rightarrow 100 = 100 \sin(200 \pi t)$$

$$\Rightarrow \sin(200 \pi t) = 1$$

$$200 \pi t = \frac{\pi}{2}$$

$$t = \frac{1}{400} \text{ sec}$$

29. Ans (3)

$$R_{\text{Coil}} = \frac{V_{\text{D.C.}}}{I_{\text{D.C.}}} = \frac{100}{25} = 4 \Omega$$

$$\text{Also } Z = \frac{V_{\text{rms}}}{I_{\text{rms}}} = \frac{100}{20} = 5 \Omega$$

$$Z^2 = X_L^2 + R^2$$

$$X_L = \sqrt{Z^2 - R^2} = \sqrt{5^2 - 4^2} = 3 \Omega$$

$$X_L = 2\pi fL$$

$$L = \frac{3}{2\pi(50)} \approx 9.5 \text{ mH}$$

30. Ans (2)

$$\text{We know that } X_C = \frac{1}{2\pi fC}$$

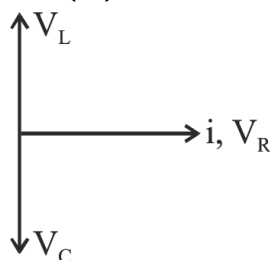
$X_C \propto \frac{1}{f}$  : so the graph b/w then will be straight line.

31. Ans (1)

$$V = \sqrt{V_R^2 + V_C^2}$$

$$\tan \phi = \frac{V_C}{V_R}$$

32. Ans (4)



33. Ans (3)

$$\text{p.f.} = \cos \phi = \frac{1}{\sqrt{2}} = \frac{R}{Z}$$

$$\Rightarrow Z = \sqrt{2}R \Rightarrow Z = 10\sqrt{2} \Omega$$

$$\text{Here } Z = \sqrt{R^2 + (X_C - X_L)^2}$$

$$\text{where } X_L = \omega L = (100)(0.1) = 10 \Omega$$

$$200 = 100 + (X_C - 10)^2$$

$$\Rightarrow X_C = 20 \Omega$$

$$\Rightarrow \frac{1}{100C} = 20$$

$$\Rightarrow C = 500 \mu\text{F}$$

34. Ans (1)

For better tuning, Q-factor must be high.

$$\therefore Q = \frac{\omega_0 L}{R} = \frac{1}{\sqrt{LC}} \left(\frac{L}{R}\right) = \frac{1}{R} \sqrt{\frac{L}{C}}$$

R and C should be small and L should be high.

35. Ans (1)

Chock coil has high  $X_L$  and low resistance.

$$\text{Hence } i = \frac{V}{Z} \text{ is very low.}$$

SECTION-B

36. Ans (1)

$$\text{Induced emf} = \frac{(B_1 - B_2)A}{\Delta t}$$

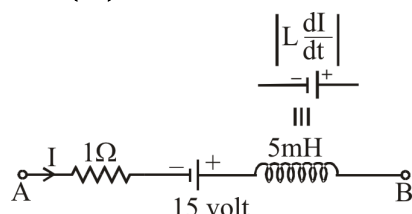
$$= \frac{(2 - 1) \times 0.01}{10^{-3}} = 10\text{V}$$

Heat produced in resistance  $R = 0.01 \Omega$  in time

$$\Delta t = 10^{-3} \text{ s is}$$

$$H = \left( \frac{V^2}{R} \right) \Delta t = \frac{(10)^2}{0.01} \times 10^{-3} = 10\text{J}$$

37. Ans (2)



From KVL A to B

$$V_A - (1 \times 5) + 15 + (5 \times 10^{-3})10^3 = V_B$$

$$V_B - V_A = +15 \text{ volt}$$

38. Ans (1)

$$V_L = V_0 e^{-t/\tau}, V_R = V_0 (1 - e^{-t/\tau})$$

39. Ans (4)

$$\epsilon = \int_{\frac{L}{2}}^L B(x) dx$$

40. Ans (4)

$$cB_0 = E_0$$

$$B_0 = \frac{E_0}{c} = \frac{1.2}{3 \times 10^8} = \mu_0 H$$

$$\Rightarrow H_0 = \frac{B_0}{\mu_0} = \frac{1.2}{3 \times 10^8 \times 4\pi \times 10^{-7}}$$

$$H_0 = \frac{10^{-2}}{\pi} \text{ Am}^{-1}$$

41. Ans (1)

Fact and data

42. Ans (4)

The equation of electric field occurring in Y-direction  $E_y = 66 \cos 2\pi \times 10^{11} \left( t - \frac{x}{c} \right)$

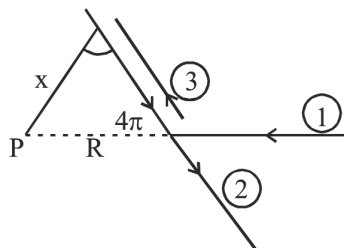
Therefore, for the magnetic field in Z-direction

$$B_z = \frac{E_y}{c} = \left( \frac{66}{3 \times 10^8} \right) \cos 2\pi \times 10^{11} \left( t - \frac{x}{c} \right)$$

$$= 22 \times 10^{-8} \cos 2\pi \times 10^{11} \left( t - \frac{x}{c} \right)$$

$$= 2.2 \times 10^{-7} \cos 2\pi \times 10^{11} \left( t - \frac{x}{c} \right)$$

43. Ans (1)



$$B_1 = 0, B_2 = \frac{\mu_0 I}{4\pi x}, B_3 = \frac{\mu_0 I \sin 45^\circ}{4\pi x}$$

$$\text{Here } \sin 45^\circ = \frac{x}{R}$$

$$B_P = B_2 - B_3$$

$$\therefore x = R/\sqrt{2}$$

$$= \frac{\mu_0 I}{4\pi x} \left( 1 - \frac{1}{\sqrt{2}} \right) = \frac{\mu_0 I}{4\pi \frac{R}{\sqrt{2}}} \left( \frac{\sqrt{2} - 1}{\sqrt{2}} \right)$$

$$= \frac{\mu_0 I}{4\pi R} (\sqrt{2} - 1)$$

44. Ans (4)

$$B_C = \frac{\mu_0}{4\pi r} \left( \pi \left( \frac{2I}{3} \right) - \pi \left( \frac{I}{3} \right) \right) = \frac{\mu_0 I}{12r}$$

outward so direction is along  $\hat{k}$

45. Ans (4)

$$\tau = MB \sin \theta \quad \theta = 0^\circ \rightarrow \text{Stable equilibrium}$$

$$U = -MB \cos \theta \quad \theta = 180^\circ \rightarrow \text{Unstable equilibrium}$$

46. Ans (1)

$r_1 : r_2 = 1 : 2$  and  $B_1 : B_2 = 1 : 3$ . We know that

$$B = \frac{\mu_0}{4\pi} \cdot \frac{2\pi ni}{r} \Rightarrow \frac{i_1}{i_2} = \frac{B_1 r_1}{B_2 r_2} = \frac{1 \times 1}{3 \times 2} = \frac{1}{6}$$

47. Ans (3)

$$R = \frac{mv}{qB} = \frac{2 \times 10^{-6} \times 3}{6 \times 10^{-6} \times 1} = 1 \text{ m} < d = 1.2 \text{ m}$$

48. Ans ( 4 )



$$F_m = 0 \left( \vec{u} \parallel \vec{B} \right)$$

$$F_e \neq 0$$

$$u_1 > u$$

but path : straight line

(b) If  $\vec{E} = -(\vec{u} \times \vec{B})$  then undeflected

Here  $\vec{E} \parallel \vec{B}$

49. Ans ( 2 )

$$V_{rms} \sqrt{\frac{\int_0^{T/2} V_0^2 dt + \int_{T/2}^T 0 dt}{T}} = \sqrt{\frac{4V_0^2 \frac{T}{2}}{T}} = V_0 \sqrt{2}$$

50. Ans ( 1 )

$$\omega_r = \frac{1}{\sqrt{LC}} = \frac{1}{\sqrt{8 \times 10^{-3} \times 20 \times 10^{-6}}}$$

$$= 2500 \text{ rad/s}$$

$$i = \frac{V}{R} = \frac{220}{44} \text{ A} = 5 \text{ A}$$

$$\text{peak value} = \sqrt{2} i_{rms} = 5\sqrt{2} \text{ A}$$

## SUBJECT : BOTANY

### SECTION-A

51. Ans ( 3 )

NCERT Pg. # 78

52. Ans ( 3 )

NCERT Page No. # 83, 87 (E), 76, 79 (H)

53. Ans ( 2 )

XII NCERT Page No. # 86, 87

54. Ans ( 2 )

Module No. 9 Page. No.4

55. Ans ( 3 )

NCERT XII, Pg. # 82

56. Ans ( 3 )

NCERT XII Pg. No. # 61

57. Ans ( 4 )

NCERT XII Page-No. 74

58. Ans ( 1 )

NCERT Pg. No. # 61

60. Ans ( 2 )

NCERT XII Pg#71 FIG. 5.2

61. Ans ( 1 )

XII NCERT Pg # 85, 86, 87

62. Ans ( 4 )

Module No. 8 Page. No.113

63. Ans ( 4 )

Module No. 9 Page. No.116

64. Ans ( 4 )

Module No. 9 Page. No.99

65. Ans ( 3 )

NCERT-XII, Pg.#96

66. Ans ( 4 )

Module, Pg. # 70

67. Ans ( 4 )

NCERT XII Pg#107

68. Ans ( 2 )

NCERT XII Pg#111(E), 122(H)

69. Ans ( 1 )

NCERT XII Pg#107(E), 118(H)

70. Ans ( 4 )

NCERT XII Pg#115(E), 126(H)

71. Ans ( 1 )

NCERT, Pg. # 104

72. Ans ( 1 )

XII NCERT Pg # 100, 103

73. Ans ( 4 )

NCERT-XII, Page No. # 107, 108, 111, 114

74. Ans ( 3 )

NCERT XII Pg#87

75. Ans ( 3 )

NCERT, Pg. # 97

76. Ans ( 1 )

NCERT Pg. No. # 61

77. Ans ( 1 )

XII NCERT Pg # 188, 187

78. **Ans ( 3 )**  
NCERT-XII, Pg. # 187, 188
79. **Ans ( 4 )**  
NCERT XII, Pg. # 181
80. **Ans ( 2 )**  
NCERT XII, Pg. # 187
81. **Ans ( 2 )**  
XII NCERT Pg # 187
82. **Ans ( 1 )**  
XII NCERT Pg # 187, 188
83. **Ans ( 3 )**  
NCERT XII Page No. 187,186
84. **Ans ( 1 )**  
XII NCERT Pg # 187
85. **Ans ( 1 )**  
XII NCERT Pg # 188

**SECTION-B**

86. **Ans ( 4 )**  
NCERT Pg. # 80
87. **Ans ( 1 )**  
XII NCERT Page No. # 86
88. **Ans ( 1 )**  
NCERT-XII, Pg. No. # 77
89. **Ans ( 1 )**  
NCERT XII Pg # 89
90. **Ans ( 3 )**  
NCERT XII Page-No.78
91. **Ans ( 3 )**  
NCERT, Pg. # 114, Para # 6.7
92. **Ans ( 1 )**  
NCERT XII Page-No. 101
93. **Ans ( 4 )**  
NCERT XII Pg#83,87(E), 92,97(H)
94. **Ans ( 1 )**  
NCERT XII Pg#84

95. **Ans ( 3 )**  
NCERT, Pg. # 104
96. **Ans ( 2 )**  
NCERT XII Pg#90
97. **Ans ( 4 )**  
NCERT, Pg. # 89, Para # 5.8.2
98. **Ans ( 4 )**  
NCERT XII, Pg. # 185
99. **Ans ( 4 )**  
NCERT Pg. No. # 187
100. **Ans ( 2 )**  
NCERT XII, Pg. # 181

**SUBJECT : ZOOLOGY**

**SECTION-A**

101. **Ans ( 2 )**  
NCERT Pg # 195,198,199
102. **Ans ( 3 )**  
NCERT XII, Pg. # 195, 196 (E)  
215 (H)
103. **Ans ( 2 )**  
NCERT Pg # 199
104. **Ans ( 1 )**  
NCERT Pg # 209, 211, 212
105. **Ans ( 4 )**  
NCERT Pg # 158
106. **Ans ( 3 )**  
NCERT-XII, Pg. # 194, 195
107. **Ans ( 1 )**  
NCERT Pg#198
108. **Ans ( 2 )**  
NCERT XII, Pg. No. 203,194,195
109. **Ans ( 1 )**  
NCERT XII, Pg. No. 197,202,203
110. **Ans ( 1 )**  
NCERT XII, Pg. No. 202,197,195

111. **Ans ( 1 )**  
NCERT XII, Pg. No. 197
112. **Ans ( 3 )**  
NCERT XII, Pg. No. 198
113. **Ans ( 2 )**  
NCERT XII, Pg. No. 194
114. **Ans ( 2 )**  
NCERT XII, Pg. No. 199
115. **Ans ( 1 )**  
NCERT XII, Pg. No. 198
116. **Ans ( 4 )**  
NCERT XII, Pg. No. 197
117. **Ans ( 4 )**  
NCERT XII, Pg. No. 199
118. **Ans ( 1 )**  
NCERT XII, Pg. No. 200,207
119. **Ans ( 4 )**  
NCERT XII, Pg. No. 197
120. **Ans ( 2 )**  
NCERT XII, Pg. No. 197
121. **Ans ( 2 )**  
NCERT XII, Pg. No. 194
122. **Ans ( 1 )**  
NCERT Pg # 208
123. **Ans ( 2 )**  
NCERT Pg # 208
124. **Ans ( 2 )**  
NCERT-XII, Pg. # 210
125. **Ans ( 3 )**  
NCERT, Pg. # 201
126. **Ans ( 2 )**  
NCERT Pg # 209
127. **Ans ( 1 )**  
NCERT Pg. # 209
128. **Ans ( 1 )**  
NCERT Page No. # 198 / 217

129. **Ans ( 2 )**  
NCERT-XII, Pg. # 176, 177
130. **Ans ( 1 )**  
NCERT XII Pg # 194
132. **Ans ( 4 )**  
NCERT XII, Pg. No. 211
133. **Ans ( 3 )**  
NCERT XII, Pg. No. 211
134. **Ans ( 1 )**  
NCERT XII, Pg. No. 211
135. **Ans ( 3 )**  
NCERT XII, Pg. No. 209

**SECTION-B**

138. **Ans ( 1 )**  
NCERT 12<sup>th</sup> Pg. No. 203
139. **Ans ( 2 )**  
NCERT (XIIth) Pg. # 208
140. **Ans ( 1 )**  
NCERT Pg. # 210
141. **Ans ( 2 )**  
NCERT XII, Pg. No. 196
142. **Ans ( 3 )**  
NCERT XII, Pg. No. 208
143. **Ans ( 3 )**  
NCERT XII, Pg. No. 196
145. **Ans ( 3 )**  
NCERT Page 195
146. **Ans ( 4 )**  
NCERT Pg # 196
147. **Ans ( 1 )**  
NCERT PG: 209, 12.1, Para-3
148. **Ans ( 2 )**  
NCERT Pg # 211
149. **Ans ( 2 )**  
NCERT Pg # 213
150. **Ans ( 1 )**  
NCERT, Pg. # 209

## SUBJECT : CHEMISTRY

## SECTION-A

152. **Ans ( 2 )**  
 $K_f \uparrow \uparrow$  Stability  $\uparrow \uparrow$
159. **Ans ( 1 )**  
 NCERT-XII (2019), Pg. # 248
165. **Ans ( 2 )**  
 $\text{PCl}_3 + 3\text{H}_2\text{O} \rightarrow \text{H}_3\text{PO}_3 + 3\text{HCl}$
169. **Ans ( 3 )**  
 graphite is thermodynamically most stable allotrope of carbon.
172. **Ans ( 4 )**  
 $2\text{NO}_2 + \text{H}_2\text{O} \rightarrow \text{HNO}_3 + \text{HNO}_2$   
 $\text{H}_2\text{S} + (\text{CH}_3\text{COO})_2\text{Pb} \rightarrow \text{PbS (Black)}$
176. **Ans ( 2 )**  
 Lanthanoid + Fe + some traces of S.C. etc.
177. **Ans ( 4 )**  
 NCERT Pg.#229
178. **Ans ( 4 )**  
 Only  $\text{Gd}^{+3}$  ( $[\text{Xe}]4f^7$ ) is paramagnetic because it as 7 unpaired electrons.

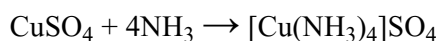
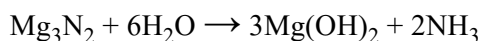
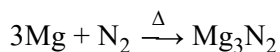
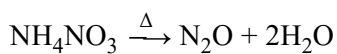
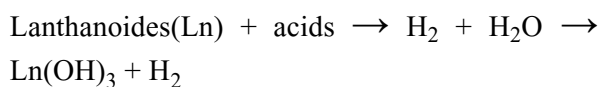
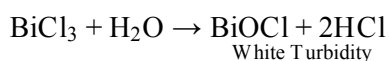
183. **Ans ( 4 )**

$\text{NH}_3$  gas brown colour solution with Nesslerer reagent

## SECTION-B

186. **Ans ( 1 )**

As per trans effect.

190. **Ans ( 2 )**192. **Ans ( 1 )**198. **Ans ( 2 )**199. **Ans ( 3 )**

Shows particle Hydrolysis.