ENTHUSIAST, LEADER & ACHIEVER COURSE

PHASE : ALL PHASE

TARGET : PRE-MEDICAL 2024

Test Type : **MAJOR** Test Pattern : **NEET (UG)**

TEST DATE : 28-04-2024

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

HINT – SHEET

SUBJECT : CHEMISTRY

SECTION-A

1. **Ans (3)**
NCERT-XII, Pg. # 357

2. **Ans (1)**
NCERT-XII, Pg. # 305

3. **Ans (3)**
NCERT-XII, Pg. # 323
3° alcohol reaction instant with Lucas reagent

4. **Ans (4)**
NCERT-XII, Pg. # 324

5. **Ans (2)**
NCERT-XII, Pg. # 385

6. **Ans (2)**
NCERT-XII, Pg. # 395

7. **Ans (3)**
NCERT-XII, Pg. # 419

13. **Ans (2)**
NCERT-2021, Part-1, Pg. # 113

14. **Ans (3)**
NCERT-2021, Part-1, Pg. # 112

15. **Ans (1)**
NCERT-2021, Part-1, Pg. # 41

K_H = Slope of the curve = $\frac{y_2 - y_1}{x_2 - x_1}$

$= \frac{1000 - 0}{0.02 - 0} = 5 \times 10^4$ torr

16. **Ans (4)**
NCERT-2021, Part-1, Pg. # 58

17. **Ans (4)**
NCERT-2021, Part-1, Pg. # 84

18. **Ans (2)**
NCERT-XII, Lab Manual, Pg. # 4

19. **Ans (1)**
For Lyman series $n_1 = 1$ (Ultra violet region)

20. **Ans (1)**
NCERT-XI, Part-1, Pg. # 198
Application of equilibrium constant

21. Ans (2)

NCERT-XI, Part-1, Pg. # 183, Ex - 6.14

$$C(\text{graphite}) + 2H_2(g) + \frac{1}{2}O_2(g) \longrightarrow CH_3OH(\ell)$$

$$\Delta_f H^\circ = (-393) + 2(-286) - (-726) = -239 \text{ kJ mol}^{-1}$$

22. Ans (3)

SO_2, H_3PO_3, NH_3, HNO_3

$+4$ $+3$ -3 $+5$

intermediate Oxidation state

23. Ans (3)

$$(1)\ \text{number of atom} = \left(\frac{5.6}{22.4}\right) \times N_A \times 3 = \frac{3}{4}NA$$

$$(2)\ \text{number of atom} = \left(\frac{0.5}{2}\right) \times N_A \times 2 = 0.5N_A$$

(3) 18 ml of water = 18 g of water

$$\text{number of atom} = \left(\frac{18}{18}\right) \times N_A \times 3 = 3N_A$$

$$(4)\ \text{number of atom} = \left(\frac{16}{48}\right) \times N_A \times 3 = N_A$$

31. Ans (4)

The order of E.N. for boron family is.
B > Tl > In > Ga > Al

35. Ans (3)

NCERT Pg. # 192

SECTION-B

36. Ans (3)

NCERT-XII, Pg. # 354,355,356

37. Ans (4)

NCERT-XII, Pg. # 289

41. Ans (2)

NCERT-2021, Part-1, Pg. # 71

$$\text{Reducing power} \propto \frac{1}{\text{SRP}}$$

42. Ans (1)

NCERT-XII, Lab Manual, Pg. # 1

43. Ans (2)

$$N_2(g) + 3H_2(g) \longrightarrow 2\,NH_3(g)$$

	28 g	6 g	
moles	1	3	
LR	1	$\frac{3}{3} = 1$	

1 mole $N_2 \equiv 2$ mole NH_3

44. Ans (1)

$$\Delta H = \Delta E + (\Delta ng)\,RT$$

$$\Delta H = (-28.6) + \frac{1 \times 2 \times 300}{1000}$$

$$\Delta H = -28.6 + 0.6$$

$$\Delta H = -28 \text{ kcal mol}^{-1}$$

47. Ans (2)

Boron form oxide of B_2O_3 type

50. Ans (3)

$$N_1V_1 + N_2V_2 = N_{final}\,V_{final}$$

$$10^{-3}V + 10^{-5}V = [H^+]\,2V$$

$$[H^+] = \frac{10^{-3} + 10^{-5}}{2}$$

$$= \frac{1.01 \times 10^{-3}}{2}$$

$$[H^+] \simeq 5 \times 10^{-4}$$

$$pH = 4 - \log 5 = 3.3$$

SUBJECT : PHYSICS

SECTION-A

51. Ans (3)

$$(W)_{ABC} = \frac{1}{2} \times (4-2) \times (2-1) \Rightarrow +1J$$

(Clockwise)

$$(W)_{ADE} = \frac{1}{2} \times (2-1) \times (3-2) = -\frac{1}{2}J$$

(Anticlockwise)

$$\left(\text{Net Work} = +\frac{1}{2}J\right)$$

52. Ans (1)

Let temperature of junction is T

$$\frac{9K\,A\,[100-T]}{18 \times 10^{-2}} = \frac{K\,A\,[T-0]}{6 \times 10^{-2}}$$

on solving T = 75°C

53. Ans (1)

Heat lost by Bullet = $k_i - k_f$

$$Q = mc\Delta T = \Delta K.$$

$$\Delta T = \frac{\Delta K}{mc} = \frac{\frac{1}{2}mv^2}{mc}$$

$$\Delta T = \frac{\frac{1}{2}(200 \times 200)}{0.03 \times 4.2 \times 10^3}$$

$$= 158.7^\circ C$$

54. Ans (3)

Given $\frac{15V}{4\ell} = 600$

(c) Fundamental frequency $\frac{V}{4\ell} = 40\ \text{Hz}$

(b) 3rd Harmonic frequency $= \frac{3V}{4\ell} = 3 \times 40 = 120\ \text{Hz}$

(a) Frequency of 3rd Overtone $= \frac{7V}{4\ell} = 7 \times 40 = 280\ \text{Hz}$

(d) 5th Harmonic $= \frac{5V}{4\ell} = 5 \times 40 = 200\ \text{Hz}$

55. Ans (3)

$V = \frac{\lambda}{T} \Rightarrow f = \frac{V}{\lambda} = \frac{20}{10} = 2\ \text{m/s}$

56. Ans (1)

If particle starts from Mean positions $\phi = 0$.

Therefore.

$y = A \sin \omega t$

$\frac{\sqrt{3}}{2}A = A \sin\left(\frac{2\pi}{T}.3\right)$

$\sin\left(\frac{\pi}{3}\right) = \sin\left(\frac{2\pi}{T}.3\right)$

$T = 18$ sec.

57. Ans (1)

$MP = 5 = \left|-\frac{f_0}{f_e}\right| \Rightarrow f_0 = 5f_e$

$L = 36 = f_0 + f_e$

$36 = f_e + 5\ f_e$

$6f_e = 36$

$f_e = 6$ cm

$f_0 = 5f_e$

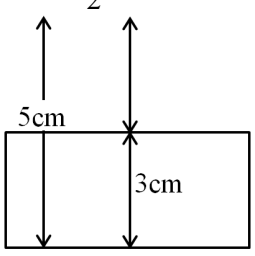
$= 5 \times 6 = 30$ cm

58. Ans (2)

$d_{app.} = \frac{d_{ac}}{\mu}$

$d_{app.} = 2 + \frac{3}{\mu} = 4.0\,\text{cm}$

$\Rightarrow \mu = \frac{3}{2}$



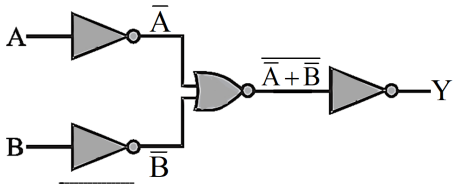
59. Ans (1)

$\tan i_p = \mu$

$\tan 60° = \mu$

$\mu = \sqrt{3}$

60. Ans (4)



$Y = \overline{\bar{A} + \bar{B}}$

$Y = \bar{A} + \bar{B} = \overline{A \cdot B}$

= NAND gate

61. Ans (4)

Capacitor is used to reduce ripples in output.

63. Ans (3)

$\lambda = \frac{h}{\sqrt{2m(K.E.)}}$ ....(i)

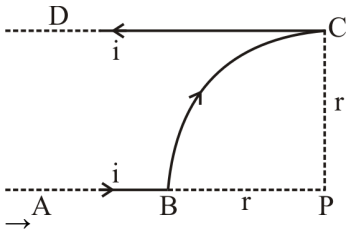
As K.E'. = 3 K.E.

$\therefore \lambda' = \frac{h}{\sqrt{2m(3K.E.)}}$ ....(ii)

From (i) and (ii)

$\lambda' = \frac{1}{\sqrt{3}}\lambda$

65. Ans (4)



$\vec{B}_{AB} = 0$

$\vec{B}_{BC} = \frac{\mu_0 I\pi}{4\pi 2r}(-\hat{k})$

and $\vec{B}_{CD} = \frac{\mu_0 I}{4\pi r}(+\hat{k})$

$\therefore \vec{B}_P = \frac{\mu_0}{4\pi}\frac{I}{r}(\hat{k}) + \frac{\mu_0 I\pi}{4\pi 2r}(-\hat{k})$

$\vec{B}_P = \frac{\mu_0}{4\pi}\frac{I}{r}\left[\frac{\pi}{2} - 1\right](-\hat{k})$

66. Ans (2)

Lorentz force

$\vec{F} = \vec{F}_e + \vec{F}_B$

$\vec{F} = q\vec{E} + q(\vec{v} \times \vec{B})$

67. Ans (2)

For a diamagnetic substance χ is small, negative and independent of temperature.

68. Ans (3)

As inward B decreases, so CW current in bigger loop & ACW current in smaller loop.

69. Ans (3)

$i_0 = \frac{V_0}{R} = \frac{10}{2} = 5A$

$U = \frac{1}{2}Li_0^2 = \frac{1}{2} \times 2 \times 25 = 25J$

70. Ans (2)

when charge is placed at centre of cube flux passing through cube is $\frac{q}{\varepsilon_0} = 4\pi kq$ and flux passing throgh each face is $\frac{4\pi kq}{6}$

71. Ans (1)

Use successive reduction Technique.

72. Ans (1)

$P = I^2R$ (I = same)

$P \propto R$

$R_{50} > R_{75} > R_{100}$

$P_{50} > P_{75} > P_{100}$

73. Ans (1)

$V_{rms} = \sqrt{(2\sqrt{2})^2 + \frac{(16)^2}{2}}$

$= 11.66$

74. Ans (3)

$[k] = \left[\frac{d^4x}{dt^4}\right] = \frac{[x]}{[T^4]} = \frac{[L]}{[T^4]} = [LT^{-4}]$

75. Ans (2)

$\bar{v} = 20\hat{i} + 40\hat{j}$

$\bar{v} = 4\cos\theta\,\hat{i} + 4\sin\theta\,\hat{j}$

$T = \frac{2u\sin\theta}{g} \Rightarrow T = \frac{2 \times 40}{10} \Rightarrow T = 8s$

76. Ans (3)

$v_{Rm} = \sqrt{v_m^2 + v_R^2}$

$v_{Rm} = \sqrt{100 + 9} = \sqrt{109}$ km/h

77. Ans (1)

$v^2 = u^2 + 2as$

$0 = (10)^2 + 2(-\mu g)(50)$ [$\because a = -\mu g$]

$\mu = \frac{100}{2 \times 500} \Rightarrow 0.1$

78. Ans (2)

$m = 2kg$

$u = 5\ ms^{-1}$

$I = F\Delta t = \Delta p =$ Area under curve

$p_f - p_i = \frac{1}{2} \times 20 \times 10$

$p_f = 100 + 2 \times 5 = 110$ N. sec

79. Ans (2)

$\frac{mv^2}{r} = \mu mg$

$v^2 = \mu rg$

$v^2 = 900$

$v = 30$ m/s

80. Ans (3)

COM of :

Semicircular Disc = $\frac{4R}{3\pi}$

Semicircular Ring = $\frac{2R}{\pi}$

Solid hemisphere = $\frac{3R}{8}$

Hemispherical shell = $\frac{R}{2}$

81. Ans (3)

$I = 2\ kg - m^2$

$\tau = (15)(0.3) = 4.5$ N–m

$\alpha = \frac{\tau}{I} = \frac{4.5}{2} = 2.25 rad/s^2$

82. Ans (2)

$W = E_2 - E_1 = \frac{GMm}{2}\left(\frac{1}{2R} - \frac{1}{3R}\right) = \frac{GMm}{12R}$

83. Ans (4)

$Y = \frac{FL}{A\Delta L}$ or $Y = \frac{1.2 \times 10^2 \times 2}{2 \times 10^{-6} \times 0.5 \times 10^{-3}}$

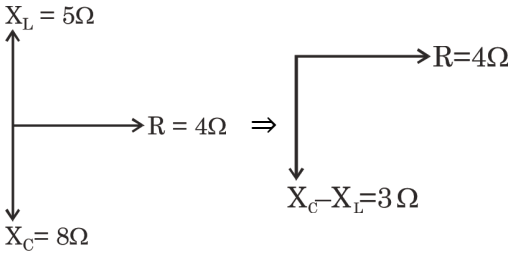
$Y = 2.4 \times 10^{11}\ N/m^2$

84. Ans (3)

$T = \frac{rh\rho g}{2} \Rightarrow 75 \times 10^{-3} = \frac{3 \times 10^{-2} \times r \times 10^3 \times 9.8}{2}$

$\Rightarrow r = \frac{1}{2}$mm $\quad \therefore D = 2r = 1$mm

85. Ans (1)



$$\tan\phi = \frac{X_C - X_L}{R} = \frac{3}{4}$$

$$\phi = \tan^{-1}\left(\frac{3}{4}\right)$$

$X_C > X_L$ so current lead voltage.

SECTION-B

86. Ans (2)

$L_{100°C} = 100$ cm, $L_{0°C} = 75$ cm

$$\frac{80-75}{100-75} = \frac{C-0}{100-0} \Rightarrow C = 20°C$$

87. Ans (3)

Theory

88. Ans (2)

For polytropic process

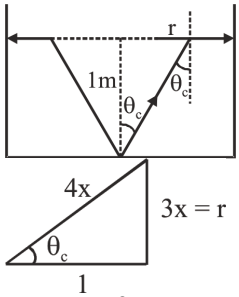
$$W = \frac{\mu R\Delta T}{1-x} \qquad PV^x = K \text{ as } PV^{-2} = a$$

Here $x = -2$

$$W = \frac{\mu R(T_2 - T_1)}{1-(-2)}$$

$$= \frac{1}{3}R(T_2 - T_1)$$

89. Ans (3)



$$\sin\theta_c = \frac{3}{4}$$

$$\Rightarrow \sqrt{(4x)^2 - (3x)^2} = 1$$

$$\text{or} \quad x = \frac{1}{\sqrt{7}}$$

$$\therefore \quad r = 3x = \frac{3}{\sqrt{7}}$$

$$d = \frac{6}{\sqrt{7}}$$

90. Ans (2)

$$\frac{I_1}{I_2} = \frac{1}{4}, \; I_{max} = 9, \quad I_{min} = 1$$

$$\frac{I_{max} - I_{min}}{I_{max} + I_{min}} = \frac{9-1}{9+1} = \frac{8}{10} = \frac{4}{5} = 0.8$$

91. Ans (3)

$$ev_0 = \frac{1}{2}mv^2$$

$$v_0 = \frac{v^2}{2\left(\frac{e}{m}\right)} = \frac{(1.2\times10^6)^2}{2\times1.8\times10^{11}}$$

$v_0 = 4$V

92. Ans (4)

As number of photons incident per second doubles number of electrons emitted also doubles so saturation current doubles.

But $eV_{S1} = h\nu - \phi$

$eV_{S2} = 2h\nu - 2\phi + \phi$

$eV_{S2} = 2\,eV_{S1} + \phi$

$V_{S2} > 2V_{S1}$

Stopping potential > 20 V

93. Ans (4)

$$\frac{E}{B} = v = \frac{\omega}{k} = \frac{3\times10^{11}}{5000} = 6\times10^7$$

$E = B \times 6 \times 10^7 = 480$

94. Ans (3)

$$F = \frac{Kq_1q_2}{r^2} = 100 \text{ N} \ldots.(i)$$

$$\text{Now, } F' = \frac{K(1.1q_1)(0.9q_2)}{r^2}$$

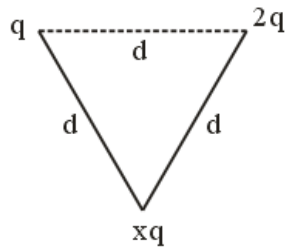
$$= 1.1\times0.9\times\frac{Kq_1q_2}{r^2}$$

$$= 1.1\times0.9\times100 = 99 \text{ N}$$

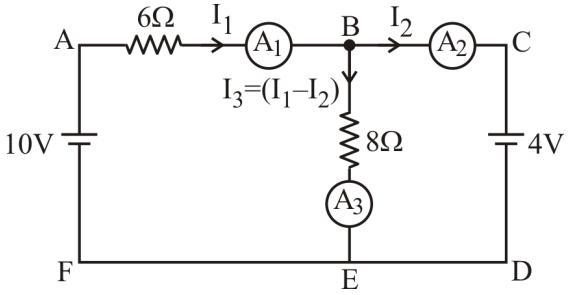
95. Ans (1)

$$\frac{K}{d}[2q^2 + xq^2 + 2xq^2] = 0$$

$$x = -\frac{2}{3}$$



96. Ans (3)



Loop ABEFA

$6I_1 + 8(I_1 - I_2) = 10$

$14I_1 - 8I_2 = 10$

or $7I_1 = 4I_2 = 5$ ...(i)

Loop BCDEB

$-8(I_1 - I_2) = -4$

$8I_1 - 8I_2 = 4$

$4I_1 - 4I_2 = 2$ ....(ii)

Subtracting (ii) from (i)

$3I_1 = 3 \Rightarrow I_1 = 1A$

from eq.(ii)

$4(1) - 4I_2 = 2$

$I_2 = 0.5$ A

and $I_3 = I_1 - I_2 = 1 - 0.5 = 0.5$ A

97. Ans (3)

At point C, $F_{Net} = 0$

and $\boxed{\frac{d_f}{d_x} < 0}$

$\frac{\partial F}{\partial x} = \frac{-\partial^2 U}{\partial x^2}$ $\left[\because F = -\frac{\partial u}{\partial x}\right]$

Hence, $\frac{\partial^2 u}{\partial x^2} > 0 \therefore$ Minima

& stable equilibrium

Also, as point c is Mean position force Just before and after position C are directed towards Mean position.

98. Ans (3)

$(2 \times 3)\hat{i} + (1 \times 4)\left(-\hat{i}\right) = (2 + 1)\vec{v}$

$2\hat{i} = 3\vec{v}$

$\vec{v} = \frac{2}{3}\hat{i}$ m/s

99. Ans (1)

$I_i = \frac{2(0.2)^2}{2}$ .... for Disc only

$w_i = 30$ rad/sec

$I_{final} = \left[\frac{2(0.2)^2}{2} + 0.25(0.2)^2\right]$

$w_f = ?$

$I_i w_i = I_f w_f$ $[\because \tau_{net} = 0]$

100. Ans (1)

$T^2 \propto r^3$

$\frac{T_1}{T_2} = \left(\frac{r_1}{r_2}\right)^{3/2}$

$\frac{24}{T_2} = (4)^{3/2} \Rightarrow T_2 = 3$ hrs.

SUBJECT : BOTANY

SECTION-A

101. Ans (1)

NCERT-XI, Pg. No. # 23

102. Ans (4)

NCERT-XI, Pg. # 32, 33

103. Ans (3)

NCERT-XI, Pg. No. # 24

104. Ans (2)

NCERT-XI, Pg. No. # 19

105. Ans (4)

NCERT-XI, Pg. No. # 13

106. Ans (3)

NCERT-XI, Pg. No. # 33,35, 38, 40

107. Ans (1)

NCERT XI, Pg # 71

108. Ans (1)

NCERT-XI, Pg. # 79

109. Ans (3)

NCERT-XI, Pg. # 75

110. Ans (3)

NCERT-XI, Pg. # 91, 92, 93

111. **Ans (4)**
NCERT-XI, (E) Pg. # 93

112. **Ans (3)**
NCERT-XI, Pg. # 93

113. **Ans (4)**
NCERT-XI, Pg. # 212

114. **Ans (3)**
NCERT-XI, Pg. # 217

115. **Ans (4)**
NCERT-XI, Pg. # 228, 229, 231, 232
हिन्दी # 229, 231, 232, 233

116. **Ans (3)**
NCERT-XI Pg. # 201

117. **Ans (4)**
NCERT-XI, Pg.# 246

118. **Ans (1)**
NCERT-XI, Pg. # 248, 249, 250

119. **Ans (3)**
NCERT-XII, Pg. # 113

120. **Ans (4)**
NCERT-XII, Pg. # 113

121. **Ans (4)**
NCERT-XII Pg.39

122. **Ans (2)**
NCERT-XII, Pg. # 19

123. **Ans (2)**
NCERT-XII, Pg. # 71, 72

124. **Ans (3)**
XII NCERT Page No. # 83, 84, 87 (E), 95, 93 (H)

125. **Ans (2)**
NCERT-XII, Pg. # 94, 98

126. **Ans (1)**
NCERT-XII, Pg. # 115

127. **Ans (3)**
NCERT-XII, Pg. # 109

128. **Ans (1)**
XII NCERT Pg # 187

129. **Ans (4)**
NCERT-XII, Pg. # 108

130. **Ans (2)**
NCERT XII Pg#88

131. **Ans (4)**
XII NCERT :- 255

132. **Ans (3)**
NCERT-XII, Pg. # 264

133. **Ans (2)**
NCERT XII, Pg. # 236-237

134. **Ans (1)**
NCERT-XII, Pg. # 227

135. **Ans (2)**
NCERT-XII, Pg. # 230

SECTION-B

136. **Ans (2)**
NCERT-XI Pg.#9

137. **Ans (1)**
NCERT XI, Pg.No.#38-39

138. **Ans (4)**
XI-NCERT page No. # 67, 71

139. **Ans (2)**
NCERT-XI, Eng Pg. # 97

140. **Ans (4)**
NCERT XI Pg # 222 - 223

141. **Ans (3)**
NCERT-XI, Pg. # 232

142. **Ans (3)**
NCERT-XI Pg. # 20

143. **Ans (2)**
NCERT XI Pg. # 154, 159

144. **Ans (2)**
NCERT-XII, Pg. # 38

145. **Ans (2)**
NCERT-XII, Pg. # 89

146. **Ans (3)**
NCERT XII Pg#109,111

147. **Ans (1)**
NCERT-XII, Pg. # 158

148. **Ans (2)**
NCERT-XII, Pg. # 243

149. **Ans (3)**
NCERT-XII, Pg. # 265

150. **Ans (2)**
NCERT-XII, Pg. # 231-232

SUBJECT : ZOOLOGY

SECTION-A

153. **Ans (3)**
Module-4 Pg#53

159. **Ans (1)**
NCERT Page No. 119

161. **Ans (3)**
NCERT-XI Pg. # 278, 279, 280

162. **Ans (1)**
NCERT-XII, Pg. # 272

166. **Ans (4)**
NCERT Pg. # 43

168. **Ans (4)**
NCERT, Pg. # 332, 333, 334, 338

171. **Ans (3)**
NCERT-XII, Pg. # 48

172. **Ans (2)**
NCERT-XII, Pg. # 213
Genetic Engineering Approval Committee

173. **Ans (1)**
Module-8, Pg#60

174. **Ans (3)**
NCERT-XII Pg# 54, 3.7

175. **Ans (3)**
NCERT-XII Pg#60

180. **Ans (3)**
NCERT-XI, Pg. # 139

181. **Ans (3)**
NCERT-XI, Pg. # 133

182. **Ans (2)**
NCERT-XII, Pg. # 113

183. **Ans (3)**
NCERT-XI, Pg # 142

184. **Ans (3)**
NCERT-XII, Pg. # 195

185. **Ans (3)**
NCERT- XII, Pg.# 169

SECTION-B

186. **Ans (3)**
NCERT Pg.# 169

187. **Ans (4)**
NCERT Pg.# 213

188. **Ans (2)**
NCERT XI, Pg.No.#164-166

189. **Ans (3)**
NCERT, Pg. No. # 147

190. **Ans (3)**
NCERT Page No.- 50

191. **Ans (3)**
NCERT Pg. # 48

192. **Ans (3)**
NCERT Pg. # 112

193. **Ans (3)**
NCERT Pg. # 102

194. **Ans (4)**
NCERT Pg. # 283

195. **Ans (1)**
NCERT-XI, Pg. No. # 268

196. **Ans (3)**
NCERT XIth, Pg. # 236

197. **Ans (3)**
NCERT Pg. # 335

198. **Ans (4)**
NCERT Pg. # 307 (Figure 20.4)

199. **Ans (4)**
NCERT Pg # 147

200. **Ans (3)**
NCERT Pg # 141 (E), 154 (H)