

## PRE-MEDICAL-LEADER TEST SERIES

Test Type : **MOCK TEST**

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

### HINT - SHEET

#### SUBJECT : PHYSICS

#### SECTION-A

1. **Ans (2)**

Separation

$$= 80 \times 100 \times (28 \times 10^{-6} - 18 \times 10^{-6}) \text{cm}$$

$$= 0.8 \text{ mm}$$

2. **Ans (4)**

$$1500 \times 10^3 \text{ cal.} = mc\Delta T$$

3. **Ans (2)**

$$\frac{(3K)A(100 - T)}{L} = \frac{(2K)A(T - 50)}{L} + \frac{K(A)(T - 20)}{L}$$

$$3(100 - T) = 2(T - 50) + (T - 20)$$

$$T = 70^\circ\text{C}$$

4. **Ans (1)**

$$As \frac{dQ}{dt} = ms \frac{dT}{dt} \Rightarrow \frac{dT}{dt} = \frac{1}{ms} \frac{dQ}{dt}$$

where  $\frac{dQ}{dt} = \sigma A(T^4 - T_s^4)$  = same for both

$$\text{Now, } \frac{dT}{dt} \propto \frac{1}{m}$$

$m_{\text{hollow}} < m_{\text{solid}}$  for same radius & material

$$\left(\frac{dT}{dt}\right)_{\text{Hollow}} > \left(\frac{dT}{dt}\right)_{\text{Solid}}$$

So, hollow sphere will cool at a faster rate for all values of T.

5. **Ans (2)**

Closed vessel, V = constant  $\Rightarrow p \propto T$

$$\frac{\Delta p}{p} \times 100 = \frac{\Delta T}{T} \times 100 = 0.5$$

$$\frac{2}{T} \times 100 = 0.5$$

$$\Rightarrow T = \frac{2 \times 100}{0.5} = 400\text{K}$$

$$t = (400 - 273)^\circ\text{C} = 127^\circ\text{C}$$

6. **Ans (3)**

$$\Delta Q_p : \Delta V_p : \Delta W_p = (\mu C_p dT) : (\mu C_v dT) : (\mu R dT)$$

$$= C_p : C_v : R = 7 : 5 : 2$$

7. **Ans (3)**

Process A → B ⇒ V = constant P<sub>0</sub> → 2P<sub>0</sub>  
T → 2T

$$Q_1 = \Delta U + W_1$$

$$W_1 = 0 \Rightarrow Q_1 = n \left( \frac{5}{2} R \right) (T) = \frac{5}{2} P_0 V_0$$

Process B → C ⇒ isothermal 2T = constant

$$Q_2 = \Delta U + W_2 \Rightarrow \Delta U = 0 \text{ \& } W_2 = nR(2T) \ln \left( \frac{2V}{V} \right) = 2P_0 V_0 \ln \left( \frac{2}{1} \right)$$

$$Q = Q_1 + Q_2 = \frac{5}{2} P_0 V_0 + 2P_0 V_0 \ln(2)$$

8. **Ans (4)**

Work done in PV graph is Area under the curve.

9. **Ans (2)**

$$\eta = \frac{1}{1 + \beta}$$

$$\frac{1}{10} = \frac{1}{1 + \beta} \Rightarrow \beta = 9$$

$$\beta = \frac{Q_2}{W}$$

$$\Rightarrow 9 = \frac{Q_2}{10} \Rightarrow Q_2 = 90$$

$$\Rightarrow Q_1 = Q_2 + W$$

$$Q_1 = 90 + 10$$

$$Q_1 = 100 \text{ J}$$

10. **Ans (1)**

$$\rho = \frac{M}{V} \Rightarrow \rho \propto V^{-1}$$

$$\frac{\Delta \rho}{\rho} = -1 \frac{\Delta V}{V}$$

$$\frac{\Delta \rho}{\rho} = -\gamma \Delta T = -49 \times 10^{-5} \times 30$$

$$\frac{\Delta \rho}{\rho} = -1.47 \times 10^{-2}$$

12. **Ans (1)**

In figure - area of cross section is constant so T decreases linearly with x from high temperature to low temperature.

13. **Ans (1)**

$$\frac{dQ}{dt} \propto \frac{\theta_1 + \theta_2}{2} - \theta_0$$

$$\left( \frac{\theta_1 + \theta_2}{2} \right)_3 < \left( \frac{\theta_1 + \theta_2}{2} \right)_2 < \left( \frac{\theta_1 + \theta_2}{2} \right)_1$$

Time : - t<sub>3</sub> > t<sub>2</sub> > t<sub>1</sub> [Inverse relation]

14. **Ans (3)**

$$C_{H_2} = x C_{He}$$

$$As \text{ } c \propto \frac{1}{\sqrt{M}}$$

$$\sqrt{M_{He}} = x \sqrt{M_{H_2}}$$

$$\sqrt{4} = x \sqrt{2}$$

$$\text{or } x = \frac{2}{\sqrt{2}} \text{ or } x = \sqrt{2}$$

15. **Ans (1)**

$$As \lambda_m = \frac{b}{T} \Rightarrow \frac{\lambda_2}{\lambda_1} = \frac{T_1}{T_2}$$

$$\Rightarrow \lambda_2 = \frac{200}{2400} \times 40 \mu\text{m} = 3.33 \mu\text{m}$$

16. **Ans (3)**

$$\Delta U = \frac{f}{2} \mu R (T_2 - T_1) = \frac{f}{2} (P_2 V_2 - P_1 V_1)$$

$$\Delta U = \frac{3}{2} (4P_0 V_0 - P_0 V_0) = 4.5 P_0 V_0$$

17. **Ans (2)**

$$\text{Isothermal } PV = K \Rightarrow P + V \frac{dP}{dV} = 0$$

$$\Rightarrow \left( \frac{dP}{dV} \right)_1 = \frac{-P}{V}$$

$$\text{adiabatic } PV^\gamma = K \Rightarrow P(\gamma V^{\gamma-1}) + V^\gamma \frac{dP}{dV} = 0$$

$$\Rightarrow \left( \frac{dP}{dV} \right)_2 = \frac{-\gamma P}{V}$$

$$\left( \frac{dP}{dV} \right)_1 = \gamma = \frac{C_P}{C_V}$$

$$\left( \frac{dP}{dV} \right)_2$$

18. **Ans (3)**

$$\eta = 1 - \frac{T_2}{T_1} = \frac{W}{Q_1}$$

$$\Rightarrow 1 - \frac{300}{400} = \frac{W}{16K}$$

$$\Rightarrow \frac{1}{4} = \frac{W}{16K} \Rightarrow W = 4KJ$$

19. **Ans (2)**

Change in  $L_A =$  change in  $L_B$

$$\text{i.e., } \Delta L_A = \Delta L_B$$

$$\Rightarrow \alpha_A \Delta T L_A = \alpha_B \Delta T L_B$$

$$\text{or } \alpha_A L_A = \alpha_B L_B$$

20. **Ans (4)**

Average kinetic energy  $\propto$  Temperature

$$\Rightarrow \frac{E_1}{E_2} = \frac{T_1}{T_2} \Rightarrow \frac{100}{E_2} = \frac{300}{450} \Rightarrow E_2 = 150 \text{ J}$$

21. **Ans (2)**

For 1 kg gas energy,  $E = \frac{f}{2} RT$

$$E = \frac{5}{2} \times \frac{8 \times 10^4}{4} = \frac{f}{2} PV \quad [f=5 \text{ for}$$

diatomic gas]

$$E = 5 \times 10^4 \text{ Joule}$$

22. **Ans (2)**

$$x = 0 \text{ to } x = \frac{a}{2}$$

$$\frac{a}{2} = a \sin \left( \frac{2\pi}{T} t_1 \right) \Rightarrow t_1 = \frac{T}{12}$$

$$x = a/2 \text{ to } x = a$$

$$t_2 = \frac{T}{4} - \frac{T}{12} = \frac{T}{6}$$

$$\frac{t_1}{t_2} = \frac{1}{2}$$

23. **Ans (4)**

At mean position velocity is maximum

$$\text{i.e., } v_{\max} = \omega a \Rightarrow \omega = \frac{v_{\max}}{a} = \frac{16}{4} = 4$$

$$\therefore v = \omega \sqrt{a^2 - y^2} \Rightarrow 8\sqrt{3} = 4\sqrt{4^2 - y^2}$$

$$\Rightarrow 192 = 16(16 - y^2) \Rightarrow 12 = 16 - y^2 \Rightarrow y = 2 \text{ cm}$$

24. **Ans (2)**

So  $a = 6 \text{ cm}$ ,  $\omega = 100 \text{ rad/sec}$

$$K_{\max} = \frac{1}{2} m \omega^2 a^2$$

$$= \frac{1}{2} \times 1 \times (100)^2 \times (6 \times 10^{-2})^2 = 18 \text{ J}$$

25. **Ans (2)**

$$T = 2\pi \sqrt{\frac{m}{k}}$$

New  $k$  (after cutting),  $k' = 4k$

$$\text{so new time period } T' = 2\pi \sqrt{\frac{m}{4k}} = \frac{T}{2}$$

26. **Ans (1)**

$$g_{\text{eff}} = 0$$

$$T = \infty, v = 0$$

27. **Ans (3)**

$$x = 4(\cos \pi t + \sin \pi t)$$

$$= 4\sqrt{2} \left( \frac{1}{\sqrt{2}} \cos \pi t + \frac{1}{\sqrt{2}} \sin \pi t \right)$$

$$x = 4\sqrt{2} \left\{ \sin \left( \pi t + \frac{\pi}{4} \right) \right\}$$

$$\text{Amplitude} = 4\sqrt{2}$$

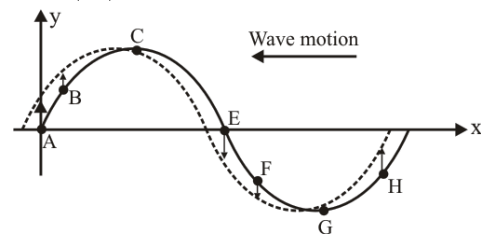
28. **Ans (1)**

$$\therefore \text{K.E.} = K_0 \cos^2 \omega t$$

$$\therefore \text{Maximum P.E.} = \text{Maximum K.E.}$$

$$= \text{Total energy} = K_0$$

29. **Ans (2)**



30. **Ans (4)**

$$P = \frac{1}{2} \mu \omega^2 A^2 v$$

$$P \propto A^2$$

$$\frac{P_A}{P_B} = \left( \frac{2A}{A} \right)^2 = 4$$

31. **Ans (1)**

$$f_1 \lambda_1 = f_2 \lambda_2$$

$$(300)(1) = (f_2)(1.5)$$

$$200 \text{ Hz} = f_2$$

32. **Ans (3)**

$$\text{incident wave } y_1 = 0.02 \sin \left( 8\pi t - \frac{8\pi}{20} x \right)$$

$$\text{reflected wave } y_R = A \sin \left( 8\pi t + \frac{8\pi}{20} x + \phi \right)$$

where  $\phi = 0$   $\therefore$  Reflected from rarer medium

$$A = \frac{75}{100} \times 0.02 = 0.015$$

$$y_R = 0.015 \sin 8\pi \left( t - \frac{x}{20} \right)$$

33. **Ans (2)**

$$\frac{\lambda}{4} = 17 + e \dots (1)$$

$$\frac{3\lambda}{4} = 52 + e \dots (2)$$

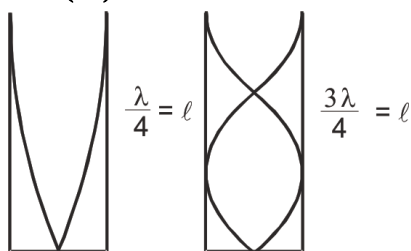
From eq (1) & (2)

$$\frac{\pi}{2} = 35 \Rightarrow \lambda = 70\text{cm}$$

Now  $v = F \lambda$

$$= 500 \times \frac{70}{100} = 350\text{m/s}$$

34. **Ans (3)**



length will be 3 times

35. **Ans (1)**

$$f_a = \frac{V + V_0}{V - V_s} \times f \Rightarrow f_a = \frac{340 + 20}{340 - 20} \times 240\text{Hz}$$

$$\Rightarrow f_a = \frac{360}{320} \times 240\text{Hz} = 270\text{ Hz}$$

### SECTION-B

36. **Ans (2)**

Heat req by ice to convert into  $100^\circ\text{C}$  water.

$$\Rightarrow 6 \times 80 + 6 \times 1 \times 100$$

$$\Rightarrow 1080\text{ Cal.}$$

Heat released by steam to completely convert into  $100^\circ\text{C}$  water.

$$= 5 \times 540 = 2700\text{ Cal.}$$

$\therefore$  steam will not convert completely. Final temp. =  $100^\circ\text{C}$

37. **Ans (1)**

**1st case :** As it is a series combination

$$K_s = \frac{2K_1K_2}{K_1 + K_2}$$

**2nd case :** As it is a parallel combination

$$K_p = (K_1 + K_2) / 2$$

$$\frac{K_s}{K_p} = \frac{4K_1K_2}{(K_1 + K_2)^2}$$

38. **Ans (3)**

$$P = \frac{Q}{t} = e_r \sigma A T^4$$

$$P = e_r \sigma (4\pi r^2) \left(\frac{b}{\lambda_m}\right)^4$$

$$P \propto \frac{r^2}{\lambda_m^4}$$

$$\frac{P_1}{P_2} = \left(\frac{r_1}{r_2}\right)^2 \left(\frac{\lambda_{m_2}}{\lambda_{m_1}}\right)^4$$

$$\frac{P_1}{P_2} = \left(\frac{3}{5}\right)^2 \times \left(\frac{500}{300}\right)^4 = \left(\frac{5}{3}\right)^2$$

39. **Ans (3)**

$$P = \text{constant } V \propto T \Rightarrow \frac{V_f}{V_i} = \frac{T_f}{T_i}$$

$$\Rightarrow T_f = \frac{V_f}{V_i} \times T_i = \frac{500}{250} \times 300 = 600\text{ K}$$

$$t_i = (600 - 273)^\circ\text{C} = 327^\circ\text{C}$$

40. **Ans (4)**

In isothermal process :  $P_1V_1 = P_2V_2$

$$PV = P_2(4V) \Rightarrow P_2 = \frac{P}{4}$$

In adiabatic process

$$\left(\frac{P}{4}\right) (4V)^\gamma = P' (32V)^\gamma$$

$$\Rightarrow P' = \frac{P}{4} \times \frac{1}{32} = \frac{P}{128}$$

41. **Ans (4)**

$$Q_{\text{loss}} = m S_A \times (30 - 26) = 4 m S_A$$

$$Q_{\text{gain}} = m S_B \times (26 - 20) = 6 m S_B$$

$$Q_{\text{loss}} = Q_{\text{gain}}$$

$$\frac{S_A}{S_B} = \frac{6}{4} = \frac{3}{2}$$

42. **Ans (2)**

$$E_2 = E_1 \frac{T_2^4}{T_1^4} = Q \times \frac{(273 + 151)^4}{(273 + 27)^4} = Q \left(\frac{424}{300}\right)^4$$

$$= 3.99Q \approx 4Q$$

43. **Ans (1)**

$$\left. \begin{aligned} N_1 &= \frac{P_1 V_1}{k T_1} \\ N_2 &= \frac{P_2 V_2}{k T_2} \end{aligned} \right\} \Rightarrow \frac{N_1}{N_2} = \frac{P_1 V_1}{T_1} \times \frac{T_2}{P_2 V_2}$$

44. **Ans (3)**

AB → isochoric  $V = \text{constant} \Rightarrow W = 0$

BC → isothermal  $T_2 = \text{constant} \Rightarrow W = RT_2 \ln \frac{V_2}{V_1}$

CA → Isobaric  $P = \text{constant}$

$\Rightarrow W = P\Delta V = R\Delta T = R(T_1 - T_2)$

45. **Ans (2)**

$K_1$  &  $K_1$  are in parallel & their parallel combination is in series with  $K_2$ .

$$\frac{1}{K_{eq}} = \frac{1}{K_2} + \frac{1}{K_1 + K_1}$$

$$\Rightarrow K_{eq} = \left[ \frac{1}{2K_1} + \frac{1}{K_2} \right]^{-1}$$

46. **Ans (4)**

In vacuum,  $T = 2\pi\sqrt{\frac{\ell}{g}}$

Let  $V$  be the volume and  $T$  be the density of the mass of the bob.

Net downward force acting on the bob in side

the liquid = Weight – upthrust

$$= V \rho g - V \cdot \frac{T}{8} g = \frac{7}{8} V \rho g$$

$\uparrow V \frac{\rho}{8} g$   
(upthrust)

$\downarrow V \rho g$  (Weight)

i.e. effective value of  $g$  is  $\frac{7}{8}g$

So, time period of the bob inside the liquid

$$\therefore T_1 = 2\pi\sqrt{\frac{\ell}{(7/8)g}} = 2\pi\sqrt{\frac{\ell}{g}} \times \sqrt{\frac{8}{7}} = \sqrt{\frac{8}{7}} T.$$

47. **Ans (3)**

$$A = A_0 e^{-yt}$$

$$0.9A_0 = A_0 e^{-5y}$$

$$\alpha A_0 = A_0 e^{-15y}$$

Solve  $\alpha = 0.729$

49. **Ans (3)**

Let the frequency of tuning fork be  $n$  and as frequency of vibration of wire

$$\propto \frac{1}{\text{length of wire}}$$

$$n \propto \frac{1}{\ell} \Rightarrow n\ell = \text{constant}$$

$$n_1 \ell_1 = n_2 \ell_2$$

$$\Rightarrow (n + 4)49 = (n - 4)50$$

$$\Rightarrow 49n + 4 \times 49 = 50n - 200$$

$$\Rightarrow n = 396$$

50. **Ans (1)**

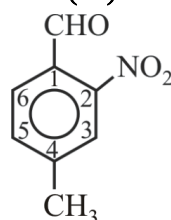
$$f_a = \frac{V + V_0}{V - V_s}(f) \quad \& \quad \lambda_a = \frac{V - V_s}{V}(\lambda)$$

more frequency & less wavelength.

## SUBJECT : CHEMISTRY

### SECTION-A

52. **Ans (3)**



53. **Ans (2)**

fact

55. **Ans (2)**

Functional group is different.

58. **Ans (3)**

Product is optically inactive.

59. **Ans (3)**

It has chiral centre and differently di substituted double bonded carbon atoms.

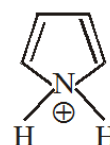
60. **Ans (1)**

Maximum value of dihedral angle =  $180^\circ$

63. **Ans (4)**

On the basis of -I effect.

64. **Ans (3)**



Here nitrogen atom is  $sp^3$  hybridised.

65. **Ans (3)**

It has more C – Cl double bond character due to more resonance.

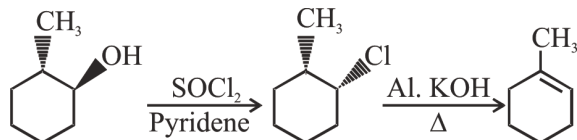
66. **Ans (3)**

On the basis of  $\alpha$ -H more  $\alpha$ -H, more stability of carbocation.

68. **Ans (3)**

It will give antiaromatic enol which is not possible.

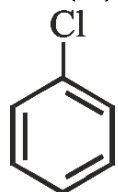
69. **Ans (1)**



70. **Ans (4)**

Similar to cumene hydroperoxide method.

71. **Ans (3)**



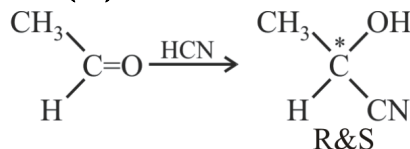
it is resonance stabilised chlorine, so

least reactive.

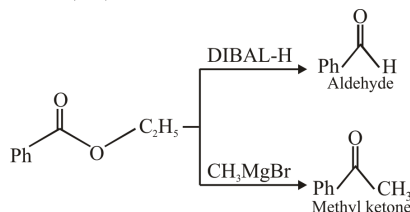
72. **Ans (4)**

Less hindered alkyl halide give  $S_N2$  reaction at fastest rate.

73. **Ans (2)**



74. **Ans (4)**



75. **Ans (2)**

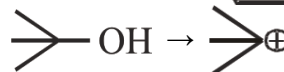
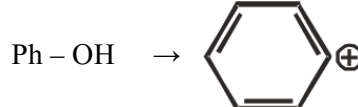
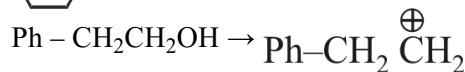
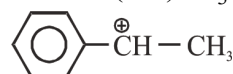
Rate  $\propto$  stability by carbocation.

76. **Ans (4)**

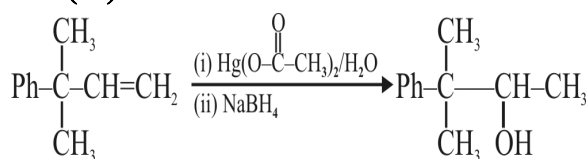
$CH_3.Mg.Br$  will react with compound having acidic hydrogen to give methane.

77. **Ans (1)**

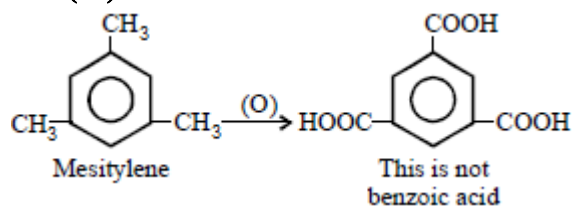
Reactivity towards  $\alpha$  stability of  
Acidic Dehydration  $\propto$  stability of  
carbocation



78. **Ans (2)**



80. **Ans (3)**



82. **Ans (1)**

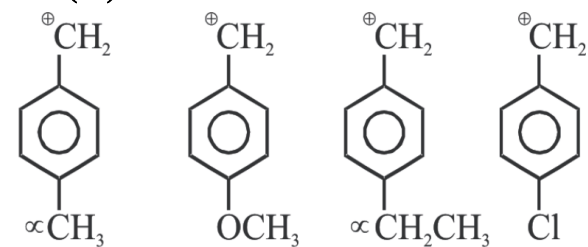
NCERT-XI/Part-II/Page-407

85. **Ans (2)**

fact.

SECTION-B

90. **Ans (2)**



+H (more)      +M      +H (less)      -I

Carbocation stability  $\rightarrow +M > +H > +I > -I > -M$

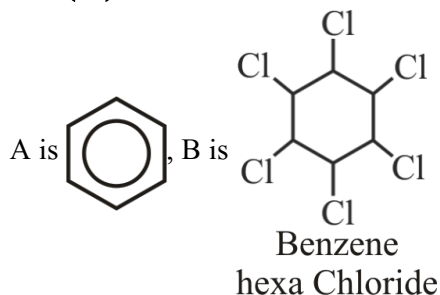
**II > I > III > IV**

91. **Ans (3)**

On the basis of strong -I effect.

93. **Ans ( 1 )**  
H-Cl does not show peroxide effect.

94. **Ans ( 3 )**



96. **Ans ( 2 )**  
H-Cl does not show peroxide effect.

97. **Ans ( 1 )**  
Major product will be obtained through more stable carbon free radical.

99. **Ans ( 4 )**  
Green house gases → water vapour, CO<sub>2</sub>, CH<sub>4</sub>, O<sub>3</sub>

100. **Ans ( 2 )**  
Fact.

### SUBJECT : BOTANY

#### SECTION-A

101. **Ans ( 3 )**  
NCERT-XI, Pg. # 178

102. **Ans ( 3 )**  
NCERT-XI, Pg. # 179

103. **Ans ( 4 )**  
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