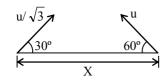
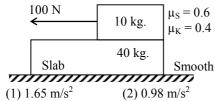
## **AIPMT - 1999**

- Q.1 The error in measurement of radius of a sphere is 0.1% then error in its volume is -
  - (1) 0.3% (2) 0.4% (3) 0.5% (4) 0.6%
- **Q.2** A body starts falling from height 'h' and travels distance h/2 during last second of motion then time of flight is (In second) -
  - (1)  $\sqrt{2} 1$
- (2)  $2 + \sqrt{2}$
- (3)  $\sqrt{2} + \sqrt{3}$
- (4)  $\sqrt{3} + 2$
- The K.E. of a person is just half of K.E. of a boy **Q.3** whose mass is just half of that person. If person increases its speed by 1 m/s, then its K.E. equals to that of boy then initial speed of person was -

  - (1)  $(\sqrt{2} + 1)$  m/s (2)  $(2 + \sqrt{2})$  m/s
  - (3)  $2(\sqrt{2} + 2)$  m/s (4) None
- **Q.4** Two particles separated at a horizontal distance X as shown in fig. they projected at the same line as shown in fig. with different initial speeds. The time after which the horizontal distance between them become zero -

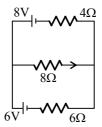


- (4) None of these
- 0.5 For a particle displacement time relation is  $t = \sqrt{x} + 3$ . Its displacement when its velocity is zero -
  - (1) 2m
  - (2) 4m
  - (3)0
  - (4) None of these
- **Q.6** If 100N force is applied to 10 kg. block as shown in diagram then acceleration produced for slab -

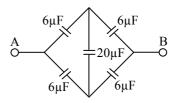


- $(3) 1.2 \text{ m/s}^2$
- $(4) 0.25 \text{ m/s}^2$

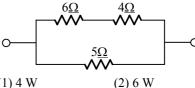
**Q.7** The current in  $8\Omega$  resistance is (See fig.)



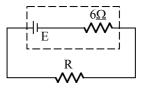
- (1) 0.69 A
- (2) 0.92 A
- (3) 1.30 A
- (4) 1.6 A
- 0.8 The effective capacity of the network between terminals A and B is -



- (1)  $6 \mu F$
- (2)  $20 \mu F$
- (3)  $3 \mu F$
- (4)  $10 \mu F$
- **Q.9** If the power dissipated in  $5\Omega$  is 20 W then power dissipated in  $4\Omega$  is -



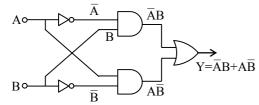
- (1) 4 W
- (3) 10 W
- (4) 20 W
- 0.10 The value of R for which power in it is maximum-



- $(1) 3\Omega$
- $(2) 6\Omega$
- $(3) 12\Omega$
- $(4) 9\Omega$
- Q.11 Initially plane of coil is parallel to the uniform magnetic field B. In time  $\Delta t$  it makes to perpendicular to the magnetic field, then charge flows in  $\Delta t$  depends on this time as -
  - $(1) \propto \Delta t$
- $(3) \propto (\Delta t)^0$
- $(4) \propto (\Delta t)^2$

- A current carrying coil (I = 5A, R = 10 cm.) 0.12 having 50 number of turns find field at its centre-
  - (1) 1.57 mT
- (2) 3.14 mT
- (3) 1 mT
- (4) 2 mT
- Eight equals charged tiny drops are combined to Q.13 form a big drop. If the potential on each drop is 10V then potential of big drop will be -
  - (1)40V
- (2) 10V
- (3) 30V
- (4) 20V
- Q.14 For a inductor coil L = 0.04 H, then workdone by source to establish a current of 5A in it is -
  - (1) 0.5 J
- (2) 1.00 J
- (3) 100 J
- (4) 20 J
- Q.15 The terminal potential difference of a cell is greater than its emf when -
  - (1) A battery of less emf is connected in its
  - (2) A battery of higher emf is connected in its series
  - (3) A battery of higher emf is connected in its parallel
  - (4) A battery of less emf is connected in its parallel
- In millikan oil drop experiment a charged drop Q.16 falls with a terminal velocity V. If an electric field E is applied vertically upwards it moves with terminal velocity 2V in upward direction. If electric field reduces to E/2 then its terminal velocity will be -

  - (1)  $\frac{V}{2}$  (2) V (3)  $\frac{3V}{2}$  (4) 2V
- 0.17 For a vibration magnetometer, the time period of suspended bar magnet can be reduced by -
  - (1) Moving it towards south pole
  - (2) Moving it towards north pole
  - (3) Moving it towards equator
  - (4) Anyone of them
- **O.18** The truth table for the following network is:



	A	В	Y
(1)	0	0	0
	0	1	0
	1	0	0
	1	1	1

	A	В	Y
	0	0	0
(2)	0	1	1
	1	0	1
	1	1	0

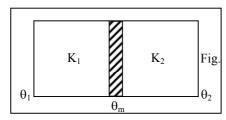
	A	В	Y
	0	0	1
(3)	0	1	0
	1	0	0
	1	1	1

(4) None of the above

- Q.19 Zener diode is used as -
  - (1) Half wave rectifier
  - (2) Full wave rectifier
  - (3) A.C. voltage stablizer
  - (4) D.C. voltage stablizer
- Q.20 Depletion layer has (for an unbiased PN junction) -
  - (1) Electrons
- (2) Holes
- (3) Static ions
- (4) Neutral atoms
- Q.21 A cylindrical tube (L = 125 cm) is resonant with a tuning fork of frequency 330 Hz. If it is filling by water then to get resonance again, minimum length of water column is  $(V_{air} = 330 \text{ m/s})$  -
  - (1) 50 cm (2) 60 cm (3) 25 cm (4) 20 cm
- Q.22 Initial pressure and volume of a gas are P and V respectively. First its volume is expanded to 4V by isothermal process and then again its volume makes to be V by adiabatic process then its final pressure is  $(\gamma = 1.5)$  -
  - (1) 8P
- (2) 4P
- (3) P
- (4) 2P
- Q.23 A sphere maintained at temperature 600 K, has cooling rate R in an external environment of 200 K temp. If its temp. falls to 400 K then its colling rate will be -
  - $(1) \frac{3}{16} R$
- (3)  $\frac{9}{27}$  R
- Q.24 A particle is projected with velocity 'u' makes an angle  $\theta$  w.r.t. horizontal. Now it breaks in two identical parts at highest point of trajectory. If one part is retrace its path, then velocity of other part is -
  - (1)  $3u \cos \theta$
- (2)  $2u \cos \theta$
- (3)  $u \cos \theta$
- (4) u

- 0.25 The amplitude of a S.H.O. reduces to 1/3 in first 20 secs. then in first 40 sec. its amplitude becomes -
  - $(1) \frac{1}{3}$
- (2)  $\frac{1}{9}$
- (3)  $\frac{1}{27}$  (4)  $\frac{1}{\sqrt{3}}$
- Q.26 Two springs A and B  $(K_A = 2 K_B)$  are stretched by same suspended weights then ratio of workdone in stretching is -
  - (1)1:2
- (2) 2:1
- (3)1:1
- (4) 1 : 4
- Q.27 A spring elongated by length 'L' when a mass 'M' is suspended to it. Now a tiny mass 'm' is attached and then released, its time period of
  - $(1) 2\pi \sqrt{\frac{(M+m)\ell}{Mg}} \qquad (2) 2\pi \sqrt{\frac{m\ell}{Mg}}$
  - (3)  $2\pi \sqrt{L/g}$
- (4)  $2\pi \sqrt{\frac{M\ell}{(m+M)g}}$
- **O.28** Frequency of simple pendulum in a free falling lift is -
  - (1) Zero
- (2) Infinite
- (3) Can't be say
- (4) Finite
- Q.29 The energy and capacity of a charged parallel plate capacitor are E and C respectively. Now a dielective slab of  $\in_r = 6$  is inserted in it then energy and capacity becomes (Assuming charge on plates remains constant)
  - (1) 6E, 6C
- (2) E, C
- (3)  $\frac{E}{6}$ ,6C
- (4) E, 6C
- Q.30 The current conduction in a discharge tube is due
  - (1) Electrons only
  - (2) +ve ions and -ve ions
  - (3) –ve ions and electrons
  - (4) +ve ions, and electrons
- Q.31 A light of amplitude A and wavelength  $\lambda$  is incident on a metallic surface, then saturation current flows is proportional to (assume cut off wave length =  $\lambda_0$ ) -
  - (1)  $A^2$ , if  $\lambda > \lambda_0$  (2)  $A^2$ , if  $\lambda < \lambda_0$
  - (3) A, if  $\lambda > \lambda_0$
- (4) A, if  $\lambda < \lambda_0$

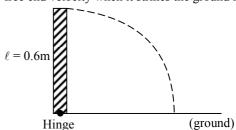
- Light of wavelength 3000 Å in Photoelectric 0.32 effect gives electron of max. K.E. 0.5 eV. If wavelength change to 2000 Å then max. K.E. of emitted electrons will be:
  - (1) Less than 0.5 eV
  - (2) 0.5 eV
  - (3) Greater than 0.5 eV
  - (4) PEE does not occurs
- Q.33 The K.E. of electron and photon is same then relation between their De-Broglie wavelength:
  - (1)  $\lambda_{\rm p} < \lambda_{\rm e}$
- (2)  $\lambda_p = \lambda_e$
- (3)  $\lambda_p > \lambda_e$
- (4)  $\lambda_p = 2\lambda_e$
- Q.34 The total energy of an electron is 3.555 MeV, then its Kinetic energy is:
  - (1) 3.545 MeV
- (2) 3.045 MeV
- (3) 3.5 MeV
- (4) None
- Q.35 Two identically charged particles A and B initially at rest, are accelerated by a common potential difference V. They enters into a transverse uniform magnetic field B. They describe a circular path of radii r<sub>1</sub> and r<sub>2</sub> respectively then their mass ratio is:
  - $(1) \left(\frac{\mathbf{r}_1}{\mathbf{r}_2}\right)^2 \qquad (2) \left(\frac{\mathbf{r}_2}{\mathbf{r}_1}\right)^2$
  - $(3) \left(\frac{\mathbf{r}_1}{\mathbf{r}_2}\right) \qquad (4) \left(\frac{\mathbf{r}_2}{\mathbf{r}_1}\right)$
- Q.36 A radio-active elements emits one  $\alpha$  and  $\beta$ particles then mass no. of daughter element is:
  - (1) Decreased by 4
- (2) Increased by 4
- (3) Decreased by 2
- (4) Increased by 2
- Q.37 The half life of a radio nuclide is 77 days then its decay constant is:
  - (1) 0.003/day
- (2) 0.006/day
- (3) 0.009/day
- (4) 0.012/day
- Q.38 For a prism its refractive index is cot A/2 then minimum angle of deviation is:
  - (1) 180 A
- (2) 180 2A
- (3) 90 A
- (4) A/2
- Q.39 Two conducting slabs of heat conductivity  $K_1$ and K<sub>2</sub> are joined as shown in fig. The temp. at ends of the slabs are  $\theta_1$  and  $\theta_2$  ( $\theta_1 > \theta_2$ ) the, final temp.  $(\theta_m)$  of junction is:



- $(1) \ \frac{K_1\theta_1 + K_2\theta_2}{K_1 + K_2}$
- (2)  $\frac{K_1\theta_2 + K_2\theta_1}{K_1 + K_2}$
- (3)  $\frac{K_1\theta_2 K_2\theta_1}{K_1 + K_2}$
- (4) None
- Q.40 A particle starts from rest with constant acceleration. The ratio of space-average velocity to the time average velocity is:

- $(1) \frac{1}{2}$   $(2) \frac{3}{4}$   $(3) \frac{4}{3}$   $(4) \frac{3}{2}$
- If radius of earth shrinks by 1% then for Q.41 acceleration due to gravity:
  - (1) No change at poles
  - (2) No change at equator
  - (3) Max. change at equator
  - (4) Equal change at all locations
- Q.42 Rohini satellite is at a height of 500 km. and Insat-B is at a height of 3600 km. from surface of earth then relation between their orbital velocity (V<sub>R</sub>,V<sub>I</sub>) is:
  - (1)  $V_R > V_1$
- (2)  $V_R < V_1$
- (3)  $V_R = V_1$
- (4) No relation
- Q.43 For moon, its mass is 1/81 of earth mass and its diameter is 1/3.7 of earth dia. If acceleration due to gravity at earth surface is 9.8 m/s<sup>2</sup> then at moon its value is:
  - $(1) 2.86 \text{ m/s}^2$
- (2)  $1.65 \text{ m/s}^2$
- $(3) 8.65 \text{ m/s}^2$
- $(4) 5.16 \text{ m/s}^2$
- Q.44 When a spring is subjected to 4N force its length is a metre and if 5N is applied length is b metre. If 9N is applied its length is:
  - (1) 4b 3a
- (2) 5b a
- (3) 5b 4a
- (4) 5b 2a
- For a body angular velocity  $\overset{\rightarrow}{\omega} = \hat{i} 2\,\hat{j} \,+\,3\,\hat{k}$ 0.45 and radius vector is  $\vec{r} = \hat{i} + \hat{j} + \hat{k}$  then its velocity is:
  - $(1) 5\hat{i} + 2\hat{i} + 3\hat{k}$   $(2) 5\hat{i} + 2\hat{i} 3\hat{k}$
  - $(3) 5\hat{i} 2\hat{j} + 3\hat{k}$   $(4) 5\hat{i} 2\hat{j} 3\hat{k}$

When a stick is released (as shown in fig.). Its 0.46 free end velocity when it strikes the ground is:



- (1) 4.2 m/s
- (2) 1.4 m/s
- (3) 2.8 m/s
- (4)  $\sqrt{6} \text{ m/s}$
- Q.47 Frequency of an E.M. waves is 10 MHz then its wavelength is:
  - (1) 30 m
- (2) 300 m
- (3) 3 m
- (4) None of the above
- Q.48 Two particles are projected with same initial velocity one makes angle  $\theta$  with horizontal while other makes an angle  $\theta$  with vertical. If their common range is R then product of their time of flight is directly proportional to:
  - (1) R
- (2)  $R^2$  (3)  $\frac{1}{R}$  (4)  $R^0$
- Q.49 In compound microscope the magnification is 95, and the distance of object from objective lens 1/3.8 cm and focal length of objective is 1/4 cm. What is the magnification of eye pieces when final image is formed at least distance of distinct vision:
  - (1)5
- (2) 10
- (3) 100
- (4) None
- Q.50 On the basis of unit cell concept a crystal has:
  - (1) 7 systems
- (2) 14 systems
- (3) 230 systems
- (4) 32 systems
- Phenyl acetylene reacts with dil. H<sub>2</sub>SO<sub>4</sub> in Q.51 presence of HgSO<sub>4</sub> gives:

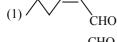
$$(4) \bigcirc -CH_2 - C - O$$

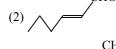
- Q.52 According to hardy Schultze law the order of coagulation power of cations will be:
  - (1)  $Na^+ > Ba^{+2} > Al^{+3}$  (2)  $Al^{+3} > Ba^{+2} > Na^+$
  - (3)  $Ba^{+2} > Al^{+3} > Na^{+}$  (4)  $Al^{+3} > Na^{+} > Ba^{+2}$
- Which of the following compound gives p-Q.53 cresol with p-methyl diazonium chloride:
  - $(1) H_2O$
- (2) H<sub>3</sub>PO<sub>2</sub>
- (3) HCOOH
- $(4) C_6H_5OH$

- 0.54 Mole ratio of H<sub>2</sub> and O<sub>2</sub> gas is 8:1 what will be the ratio of wt.:
  - (1) 1 : 1
- (2) 2 : 1
- (3)4:1
- (4) 1:2
- Ionization energy of second orbit of Li<sup>+2</sup> will be: Q.55
  - (1) 122.4 eV
- (2) 40.8 eV
- (3) 30.6 eV
- (4) 13.6 eV
- **O.56** Which of the following electronic configuration will have maximum I.P. difference between II and III I.P.:

  - (1)  $1s^2 2s^2 2p^6 3s^1$  (2)  $1s^2 2s^2 2p^6 3s^2$ (3)  $1s^2 2s^2 2p^6$  (4)  $1s^2 2s^2 2p^5$
- Q.57 The concentration of a solution is changed from 0.2 to 0.4, then what will be rate and rate constant. The reaction is of first order and rate constant is  $K = 1 \times 10^{-6}$ :
  - (1)  $2 \times 10^{-7}$ ;  $1 \times 10^{-6}$  (2)  $1 \times 10^{-7}$ ;  $1 \times 10^{6}$
  - (3)  $4 \times 10^{-7}$ ;  $1 \times 10^{-6}$  (4)  $2 \times 10^{-3}$ ;  $1 \times 10^{-3}$
- Half life of a radioactive sample is 4 days. After Q.58 16 days how much quantity of matter remain undecayed:

- $(1) \frac{1}{4}$   $(2) \frac{1}{8}$   $(3) \frac{1}{16}$   $(4) \frac{1}{32}$
- 0.59 Structure of trans 2-hexanal is:





- (4) None of the above
- **Q.60** Which of the following gives ethyl benzene with phenyl methyl ketone:
  - (1) Zn-Hg+HCl
- (2) LiAlH<sub>4</sub>
- $(3) \text{ KMnO}_4$
- (4) None of the above
- Q.61 Acetaldehyde reacts with semicarbazide product will be:
  - (1)  $CH_3CH = NNH-CO-NH_2$
  - (2)  $CH_3CH = NCONHNH_2$
  - (3)  $CH_3CH = NHNH_2$

$$\begin{matrix} O \\ \parallel \\ (4) \ CH_3-C-NH-CONH_2 \end{matrix}$$

- Cynohydrin of the following compound on Q.62 hydrolysis gives optically active product:
  - (1) HCHO
- (2) CH<sub>3</sub>CHO
- (3) CH<sub>3</sub>COCH<sub>3</sub>
- (4) All of the above

- Which of the following is a chiral compound: Q.63
  - (1) 2-methyl pentanoic acid
  - (2) 3-methyl pentanoic acid
  - (3) 4-methyl pentanoic acid
  - (4) None of these
- Q.64 Compound 'A' on chlorination gives compound 'B'. 'B' reacts with alc. KOH gives gas 'C', which decolourises Baever reagent and ozonolysis of compound 'C' gives only HCHO compound 'A' is:
  - $(1) C_2H_6$
- $(2) C_2H_4$
- $(3) C_4H_{10}$
- (4) C<sub>2</sub>H<sub>5</sub>Cl
- Q.65 Monomer of natural rubber is:

(1) 
$$CH_3 - C = CH - CH_3$$
  
 $CH_3$ 

- (2) CH<sub>3</sub>-CH=CH-CH<sub>3</sub>
- (3)  $CH_2 = C CH = CH_2$ ĊН
- (4)  $CH_2 = C C = CH_2$ CH<sub>3</sub> CH<sub>3</sub>
- Q.66 Which of the following compound contain zero oxidation state of Fe:
  - (1)  $[Fe(CN)_6]^{-4}$
  - (2)  $[Fe(CN)_6]^{-3}$
  - (3) Fe(CO)<sub>5</sub>
  - (4) All the above
- A compound contain C, H and O. If C = 40%0.67 and H = 6.67% then empirical formula of compound will be:
  - (1) CH<sub>2</sub>O
- (2) CH<sub>4</sub>O
- (3) CH<sub>4</sub>O<sub>2</sub>
- (4) CHO
- 0.68 [Cu(NH<sub>3</sub>)<sub>4</sub>]<sup>+2</sup> reacts with HNO<sub>3</sub> in excess of water gives:
  - $(1) Cu(OH)_2$
- (2)  $Cu(NO_3)_2$
- (3)  $Cu(H_2O)^{-2}$
- (4) None of the above
- 0.69 Cr in [Cr(NH<sub>3</sub>)<sub>6</sub>] Br<sub>3</sub> has number of unpaired electron:
  - (1)4
- (2) 3
- (3) 1
- (4)2
- Q.70Sucrose on hydrolysis gives:
  - (1) L(+) Glucose + D(+) Fructose
  - (2) L(-) Glucose + L(-) Fructose
  - (3) D(+) Glucose + D(-) Fructose
  - (4) D(+) Glucose + L(-) Fructose

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Q.71 Order of acidic strength of the following compound will be:



(B)  $C_6H_5OH$ 



- (D) OH
  NO<sub>2</sub>
- (1) C > D > B > A
- (2) D > C > B > A
- (3) A > B > C > D
- (4) B > A > C > D
- Q.72 Which of the following comp. is coloured and has unpaired electron:
  - (1) CuF<sub>2</sub>
- $(2) K_2Cr_2O_7$
- (3) KMnO<sub>4</sub>
- (4)  $K_4[Fe(CN)_6]$
- Q.73 Which of the following does not reduce Fehling solution:
  - (1) Glucose
- (2) Fructose
- (3) Sucrose
- (4) Maltose
- **Q.74** O.N. of P in pyrophosphoric acid is:
  - (1) + 5
- (2) + 2
- (3) + 3
- (4) + 4
- Q.75 Which of the following example behave as a lewis acid BF<sub>3</sub>, SnCl<sub>2</sub>, SnCl<sub>4</sub>:
  - (1) Stenus chloride, stenic chloride
  - (2) BF<sub>3</sub>, stenus chloride
  - (3) Only BF<sub>3</sub>
  - (4) BF<sub>3</sub>, stenus chloride, stenic chloride
- **Q.76** In which of the following comp. H atom is directly linked with phosphorus:
  - (1) H<sub>3</sub>PO<sub>2</sub>
- (2) H<sub>3</sub>PO<sub>3</sub>
- $(3) H_3PO_4$

(4) 10 4

 $(4) H_4 P_2 O_7$ 

2

- Q.77 a  $Zn + b NO_3^- + cH + \rightarrow d NH_4^+ + e H_2O$ 
  - $+ fZn^{+2}$  a, b, c, d, e and f are:

	a	b	c	d	e	f
(1)	2	4	6	8	4	2
(2)	1	4	10	3	1	4
(3)	4	1	10	1	3	4

1 3

**Q.78** Determine the value of E<sup>0</sup> cell for the following reaction:

$$Cu^{+2} + Sn^{+2} \rightarrow Cu + Sn^{+4}$$

Equilibrium constant is 10<sup>6</sup>

$$Cu^{++} + Sn^{++} \rightarrow Cu + Sn^{+4}$$

- (1) 0.1773
- (2) 0.01773
- (3) 0.2153
- (4) 1.773
- **Q.79** What will be the H<sup>+</sup> con when 4 gm NaOH dissolved in 1000 ml. of water:
  - $(1)\ 10^{-1}$
- $(2)\ 10^{-13}$
- $(3) 10^{-4}$
- $(4)\ 10^{-10}$
- **Q.80** What is true for a cyclic process:
  - (1) W = 0
- (2)  $\Delta E = 0$
- $(3) \Delta H = 0$
- (4)  $\Delta E \neq 0$
- Q.81 Increasing order of bond length is:
  - (1)  $NO^- < NO < NO^+ < O_2^-$
  - (2)  $O_2^- < NO < NO^- < NO^+$
  - (3)  $O_2^- < NO^- < NO < NO^+$
  - (4)  $NO^+ < NO < NO^- < O_2^-$
- **Q.82** A system is expanded under adiabatic process:
  - (1) Temp. increase
- (2)  $\Delta E$  decreases
- (3)  $\Delta E$  increases
- (4) None of these
- Q.83 Which of the following is true for a reaction in which all the reactant & product are liquids:
  - (1)  $\Delta H = \Delta E$
  - (2)  $\Delta H = \Delta W$
  - (3)  $\Delta H > \Delta E$
  - (4) None of the above
- **Q.84** Clemenson's reaction is:

$$\begin{array}{ccc}
O \\
C - CH_3 & CH_2CH_3 \\
\hline
\end{array}$$

$$\begin{array}{ccc}
& & & & & & & & \\
& & & & & & & \\
\end{array}$$

$$\begin{array}{cccc}
& & & & & & & & \\
& & & & & & & \\
\end{array}$$

(2)  $C_6H_5$ -COCH<sub>3</sub> +  $NH_2NH_2 \rightarrow$ 

$$C_2H_5ON \rightarrow C_6H_5CH_2CH_3$$

- (3)  $CH_3COCH_3 + 4HI \xrightarrow{Red. P} CH_3CH_2CH_3$
- (4) All the above
- **Q.85** Which of the following reaction gives by isocyanide:
  - (1) Rimer Tieman reaction
  - (2) Carbyl amine reaction
  - (3) Hoffmann bromamide reaction
  - (4) None of the above

Q.86         In a gaseous mixture which of NO₂, CO₂ and N₂O gases have same rate of diffusion: (1) N₀₂ cO₂ (2) CO₂, N₂O (3) N₀₂ gases have same rate of diffusion: (1) N₀₂ cO₂ (2) CO₂, N₂O (3) NO₂, N₂O (4) All (3) κCo² (2) N₂O (4) All (3) κCo² (2) N₂O (4) All (3) κCo² (2) N₂O (4) Compound 'A' in acidic medium does not give ppt with H₂S but in NH₄OH medium gives a ppt comp. 'A' is: (2) AlCl₁ (3) ZnCl₂ (4) SnCl₂ (2) N₃CrO₂ (2) N₃CrO₂ (2) N₃CrO₂ (2) N₃CrO₂ (2) N₃CrO₂ (3) Ec₂O (4) SnCl₂ (4) SnCl₂ (2) N₃CrO₂ (3) Ec₂O (4) FeO (4) EcO (4) FeO (4) FeO (4) Pao (4) Compound BA₂ has K <sub>φ</sub> = 4 × 10⁻¹² solubility of this comp. will be: (1) 10⁻³ (2) 10⁻² (4) 10					AIPMT - 1999
(1) NO₂, CO₂ (2) CO₂, N₂O (3) NO₂, N₂O (4) All (3), C³¹ (2) gO¹⁵ (3) NO₂, N₂O (4) All (4) Ne  Q.87 Compound 'A' in acidic medium does not give ppt with H₂S but in NH₄OH medium gives a ppt comp. 'A' is: (1) FcCl; (2) AlCl; (3) ZnCl₂ (4) SnCl₂ (2) AlCl; (3) ZnCl₂ (4) SnCl₂ (2) Na₂CrO₂ (3) FcO₁ (2) Na₂CrO₂ (3) FcO₁ (4) FcO  Q.88 FcCr₂O₂ reacts with Na₂CO₃ gives the product: (1) Na₂CrO₄ (2) Na₂Cr₂O₂ (3) FcO₁ (4) FcO  Q.89 A compound BA₂ has K₃ = 4 × 10⁻¹² solubility of this comp. will be: (1) 10⁻³ (2) 10⁻⁴ (3) 10⁻⁵ (4) 10⁻⁶ (1) Y × 10⁻³ ton (2) T× 10⁻³ ton (3) T× 10⁻³ ton (4) T× 10⁻¹ ton (4) T× 10⁻¹ ton (3) T× 10⁻³ ton (2) T× 10⁻³ ton (3) T× 10⁻³ ton (4) T× 10⁻¹ ton (3) T× 10⁻³ ton (4) T× 10⁻¹ ton (4) T× 10⁻¹ ton (3) T× 10⁻³ ton (2) T× 10⁻³ ton (3) T× 10⁻³ ton (3) T× 10⁻³ ton (2) T× 10⁻³ ton (3) T× 10⁻³ ton (3) T× 10⁻³ ton (4) T× 10⁻¹ ton (3) T× 10⁻³ ton (2) T× 10⁻³ ton (3) T× 10⁻³ ton (3) T× 10⁻³ ton (2) T× 10⁻³ ton (3) T× 10⁻³ ton (3) T× 10⁻³ ton (3) T× 10⁻³ ton (4) T× 10⁻¹ ton (4) T× 10⁻¹ ton (3) T× 10⁻³ ton (4) T× 10⁻¹ ton (4) T× 10⁻¹ ton (4) T× 10⁻¹ to	Q.86			Q.98	
(3) $NO_2$ , $N_2O$ (4) All (2, a compound $A^2$ in acidic medium does not give ppt with $H_2S$ but in $NH_2OH$ medium gives a ppt comp. $A^2$ is: (1) $O_2$ (2) $O_2$ AlCl <sub>3</sub> (3) $O_2$ (4) $O_2$ (2) $O_2$ (4) $O_2$ (2) $O_3$ (3) $O_2$ (4) $O_2$ (2) $O_3$ (3) $O_2$ (4) $O_3$ (3) $O_3$ (4) $O_3$ (4) $O_3$ (3) $O_3$ (4) $O_3$ (4) $O_3$ (5) $O_3$ (4) $O_3$ (6) $O_3$ (6) $O_3$ (7) $O_3$ (8) $O_3$ (8) $O_3$ (8) $O_3$ (9) $O_3$ (1) $O_3$ (1) $O_3$ (2) $O_3$ (2) $O_3$ (3) $O_3$ (4) $O_3$ (2) $O_3$ (4) $O_3$ (2) $O_3$ (3) $O_3$ (4) $O_3$ (2) $O_3$ (4) $O_3$ (5) $O_3$ (6) $O_3$ (7) $O_3$ (7) $O_3$ (8) $O_3$ (8) $O_3$ (8) $O_3$ (8) $O_3$ (8) $O_3$ (9) $O_3$ (10) $O_3$		N <sub>2</sub> O gases have sam	ne rate of diffusion :		_
Q.87         Compound 'A' in acidic medium does not give ppt with H₂S but in NH₄OH medium gives a ppt comp. 'A' is:					
ppt with H <sub>s</sub> S but in NH <sub>2</sub> OH medium gives a ppt comp. $\Lambda^3$ is: $(1) \text{ FeC} \text{ G} \text{ if } \text{ C} \text{ J} \text{ AlCl}_3 \text{ and } \text{ J} \text{ C} \text{ J} \text{ C} \text{ J} \text{ J} \text{ C} \text{ J} \text{ J}$		* *	` '		$(3) {}_{6}C^{14}$ (4) Ne
comp. 'A' is: $(1) \operatorname{FeCl}_3 \qquad (2) \operatorname{AlCl}_3 \\ (3) \operatorname{ZnCl}_2 \qquad (4) \operatorname{SnCl}_2 \\ \mathbf{Q.88} \qquad \operatorname{FeCr}_2O_7 \operatorname{reacts} \operatorname{with} \operatorname{Na}_2\operatorname{CO}_3 \operatorname{gives} \operatorname{the product}: \\ (1) \operatorname{Na}_2\operatorname{CrO}_4 \qquad (2) \operatorname{Na}_2\operatorname{Cr}_2\operatorname{O}_7 \\ (3) \operatorname{Fe}_3\operatorname{O}_4 \qquad (4) \operatorname{FeO} \\ \mathbf{Q.89} \qquad \operatorname{A compound} \operatorname{BA}_2 \operatorname{has} \operatorname{K}_{np} = 4 \times 10^{-12} \operatorname{solubility} \operatorname{of this comp. will be:} \\ (1) \operatorname{10}^{-3}  (2) \operatorname{10}^{-4}  (3) \operatorname{10}^{-5}  (4) \operatorname{10}^{-6} \\ \mathbf{Q.90} \qquad \operatorname{H}_2\operatorname{O}_2 \operatorname{on} \operatorname{oxidation} \operatorname{gives}: \\ (1) \operatorname{O}^{-2}  (2) \operatorname{OH}^-  (3) \operatorname{O}_2^-  (4) \operatorname{O}_2 \\ \mathbf{Q.91} \qquad \operatorname{What is false for mole fraction:} \\ (1) \operatorname{x} \times 1 \qquad (2) - 2 \le \operatorname{x} \le 2 \\ (3) \operatorname{0} \le \operatorname{x} \le 1 \qquad (4) \operatorname{Always non-negative} \\ \mathbf{Q.92} \qquad \operatorname{MgO} \text{ and } \operatorname{NaCl has similar structure. In } \operatorname{MgO}_{\text{magnesituem is surrounded by how many oxygen atoms:} \\ (1) \operatorname{1}_2  (2) \operatorname{2}_4  (3) \operatorname{6}  (4) \operatorname{1}_1 \\ \mathbf{Q.93} \qquad \operatorname{General behaviour of } \operatorname{O_3} \operatorname{is:} \\ (1) \operatorname{Gives electrons}  (2) \operatorname{Gives} \operatorname{O}_2 \\ (3) \operatorname{Reaction} \operatorname{with} \operatorname{H}_2  (4) \operatorname{Accept electrons} \\ \mathbf{Q.94} \qquad \operatorname{How many } \operatorname{ATP} \operatorname{will} \operatorname{be formed by } \operatorname{oxidation} \operatorname{of } 1 \operatorname{mole glucose:} \\ (1) \operatorname{30} \operatorname{6}  (2) \operatorname{400} \operatorname{otor} \\ (3) \operatorname{600} \operatorname{torr}  (4) \operatorname{50} \operatorname{torr} \\ (3) \operatorname{600} \operatorname{col}  (4) \operatorname{50} \operatorname{torr} \\ (3) \operatorname{600} \operatorname{col}  (4) \operatorname{50} \operatorname{torr} \\ (3) \operatorname{600} \operatorname{col}  (4) \operatorname{50} \operatorname{torr} \\ (3) \operatorname{60} \operatorname{col}  ($	<b>Q.87</b>	•	_	Q.99	· · · · · · · · · · · · · · · · · · ·
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			NH <sub>4</sub> OH medium gives a ppt		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		_	(2) 1101		(1) 0.9   (2) 0.09
Q.88 FeCr <sub>2</sub> O <sub>7</sub> reacts with Na <sub>2</sub> CO <sub>3</sub> gives the product : (1) Na <sub>2</sub> CrO <sub>4</sub> (2) Na <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> (3) Fe <sub>3</sub> O <sub>4</sub> (4) FeO Q.89 A compound BA <sub>2</sub> has $K_{sp} = 4 \times 10^{-12}$ solubility of this comp. will be : (1) $10^{-3}$ (2) $10^{-4}$ (3) $10^{-5}$ (4) $10^{-6}$ Q.90 $H_2O_2$ on oxidation gives : (1) $O^{-2}$ (2) OH (3) $O_2$ (4) $O_2$ Q.91 What is false for mole fraction : (1) $x < 1$ (2) $-2 \le x \le 2$ (3) $0 \le x \le 1$ (4) Always non-negative MgO and NaCl has similar structure. In MgO magnesiuem is surrounded by how many oxygen atoms : (1) $O_2$ (2) $O_2$ (2) $O_3$ (3) $O_3$ (4) $O_3$ (2) $O_3$ (4) $O_3$ (2) $O_3$ (4) $O_3$ (2) $O_3$		. ,	` '		(3) 0.009 (4) 0.013
(1) Na <sub>2</sub> CrO <sub>4</sub> (2) Na <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> (3) Fe <sub>3</sub> O <sub>4</sub> (4) FeO  Q.89 A compound BA <sub>2</sub> has $S_{sp} = 4 \times 10^{-12}$ solubility of this comp. will be: (1) $10^{-3}$ (2) $10^{-4}$ (3) $10^{-5}$ (4) $10^{-6}$ Q.90 $H_2O_2$ on oxidation gives: (1) $O^{-2}$ (2) OH (3) $O_2^{-}$ (4) $O_2$ Q.91 What is false for mole fraction: (1) $x < 1$ (2) $-2 \le x \le 2$ (3) $0 \le x \le 1$ (4) Always non-negative $O_2$ MgO and NaCl has similar structure. In MgO magnesiuem is surrounded by how many oxygen atoms: (1) $O_2$ (2) 4 (3) 6 (4) 1  Q.93 General behaviour of $O_3$ is: (1) Gives electrons (2) Gives $O_2$ (3) Reaction with $H_2$ (4) Accept electrons (1) $O_2$ (2) 40 (3) 24 (4) 32  Q.95 400 ml gas at 500 torr and 666.6 ml gas at 600 torr taken in a container of 3 litre then the total pressure of mixture: (1) 200 torr (2) 400 torr (3) 600 torr (4) 50 torr (2) 600 torr (2) Cholesterole (3) ACTH (4) Adrenaline (1) Fed by the following is steroid harmones: (1) Progesterone (2) Cholesterole (3) ACTH (4) Adrenaline (1) Fed by the following is followed by the following is 500 tors and 66 or many container of 3 litre then the origin of organisms (3) 600 tors (4) Adrenaline (2) Energy plantation (3) Cultivation of sugar cane then energy obtain by burning it (4) Solar cooker (4) Elementary of 3 litre then the total pressure of mixture: (1) 200 torr (2) 400 torr (3) 600 torr (4) 50 torr (2) 400 torr (3) 600 torr (4) 50 torr (2) 400 torr (3) 600 torr (4) 50 torr (2) 400 torr (3) 600 torr (4) 4 Adrenaline (4) Adrenaline (5) Explain the origin of organisms		` '	· / -	Q.101	=
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Q.88				` /
Q.89 A compound BA2 has $K_{sp} = 4 \times 10^{-12}$ solubility of this comp. will be: (1) $10^{-3}$ (2) $10^{-4}$ (3) $10^{-5}$ (4) $10^{-6}$ Q.90 $H_2O_2$ on oxidation gives: (1) $O^{-2}$ (2) $OH$ (3) $O_2^-$ (4) $O_2$ Q.91 What is false for mole fraction: (1) $x < 1$ (2) $-2 \le x \le 2$ (3) $0 \le x \le 1$ (4) Always non-negative Q.92 MgO and NaCl has similar structure. In MgO magnesiuem is surrounded by how many oxygen atoms: (1) $O(2) = (2)$		. ,			$(3) 6 \times 10^8 \qquad (4) 6 \times 10^7$
of this comp. will be: (1) $10^{-3}$ (2) $10^{-4}$ (3) $10^{-5}$ (4) $10^{-6}$ Q.90 $H_2O_2$ on oxidation gives: (1) $O^{-2}$ (2) $OH^-$ (3) $O_2^-$ (4) $O_2$ (3) Bordeaux mixture (4) Azaderectnin Q.10 $\times$ 1 $\times$ 2 $\times$ 2 (3) $0 \le x \le 1$ (4) Always non-negative Q.92 MgO and NaCl has similar structure. In MgO magnesiuem is surrounded by how many oxygen atoms: (1) $OH_2$ (2) $OH_2$ (3) $OH_2$ (4) $OH_2$ (2) $OH_2$ (3) $OH_2$ (4) $OH_2$ (2) $OH_2$ (3) $OH_2$ (4) $OH_2$ (4) $OH_2$ (5) $OH_2$ (6) $OH_2$ (7) $OH_2$ (7) $OH_2$ (8) $OH_2$ (1) $OH_2$ (1) $OH_2$ (1) $OH_2$ (2) $OH_2$ (3) $OH_2$ (4) $OH_2$ (4) $OH_2$ (5) $OH_2$ (6) $OH_2$ (6) $OH_2$ (7) $OH_2$ (4) $OH_2$ (7) $OH_2$ (8) $OH_2$ (8) $OH_2$ (1) $OH_2$ (1) $OH_2$ (1) $OH_2$ (2) $OH_2$ (3) $OH_2$ (4) $OH_2$ (4) $OH_2$ (4) $OH_2$ (5) $OH_2$ (6) $OH_2$ (6) $OH_2$ (7) $OH_2$ (7) $OH_2$ (8) $OH_2$ (1) $OH_2$ (8) $OH_2$ (1) $OH_2$ (1) $OH_2$ (1) $OH_2$ (1) $OH_2$ (1) $OH_2$ (2) $OH_2$ (3) $OH_2$ (4) $OH_2$ (4) $OH_2$ (4) $OH_2$ (5) $OH_2$ (6) $OH_2$ (6) $OH_2$ (6) $OH_2$ (7) $OH_2$ (7) $OH_2$ (7) $OH_2$ (7) $OH_2$ (8)			· ,	Q.102	Total amount of CO <sub>2</sub> fixed annually by plants :
(1) $10^{-3}$ (2) $10^{-4}$ (3) $10^{-5}$ (4) $10^{-6}$ Q.90  H <sub>2</sub> O <sub>2</sub> on oxidation gives: (1) O <sup>-2</sup> (2) OH <sup>-</sup> (3) O <sub>2</sub> <sup>-</sup> (4) O <sub>2</sub> Q.91  What is false for mole fraction: (1) x < 1 (2) - 2 \le x \le 2 (3) 0 \le x \le 1 (4) Always non-negative  Q.92  MgO and NaCl has similar structure. In MgO magnesiuem is surrounded by how many oxygen atoms: (1) 2 (2) 4 (3) 6 (4) 1  Q.93  General behaviour of O <sub>3</sub> is: (1) Gives electrons (2) Gives O <sub>2</sub> (3) Reaction with H <sub>2</sub> (4) Accept electrons (1) 36 (2) 40 (3) 24 (4) 32  Q.95  Q.96  Which of the following is steroid harmones: (1) 200 torr (2) 400 torr (3) 600 torr (4) 50 torr  Q.96  Which of the following is steroid harmones: (1) Progesterone (2) Cholesterole (3) ACTH (4) Adrenaline  Q.103  Most stable pesticides: (1) Organophosphates (2) Organochlorines (3) Bordeaux mixture (4) Azaderectnin  Q.104  Best economic method to harvest the solar energy: (1) Solar cell (2) Energy plantation (3) Cultivation of sugar cane then energy obtain by burning it (4) Solar cooker  Q.105  Main reason of disturbance of biological diversity: (1) Green house effect (2) Hunting (3) Soil erosion (4) Destruction of natural habitats (2) Gene library (3) Bordeaux mixture (4) Azaderectnin (4) Solar cooker  Q.105  Mgo and NaCl has similar structure. In MgO magnesiuem is surrounded by how many oxygen atoms: (1) Gives electrons (2) Gives O <sub>2</sub> (3) Reaction with H <sub>2</sub> (4) Accept electrons (4) Solar cooker  Q.105  Main reason of disturbance of biological diversity: (1) Green house effect (2) Hunting (3) Soil erosion (4) Destruction of natural habitats (2) Gene library (3) By storing seeds (4) Cryvopreservation (1) By growing them in natural habitats (2) Gene library (3) By storing seeds (4) Cryvopreservation (1) Facilitate the identification of unknown species (2) Explain the origin of organisms	Q.89				` /
Q.90 $H_2O_2$ on oxidation gives:  (1) $O^{-2}$ (2) OH (3) $O_2$ (4) $O_2$ Q.91 What is false for mole fraction:  (1) $x < 1$ (2) $-2 \le x \le 2$ (3) $0 \le x \le 1$ (4) Always non-negative  Q.92 MgO and NaCl has similar structure. In MgO magnesiuem is surrounded by how many oxygen atoms:  (1) 2 (2) 4 (3) 6 (4) 1  Q.93 General behaviour of $O_3$ is: (1) Gives electrons (2) Gives $O_2$ (3) Reaction with $H_2$ (4) Accept electrons  Q.94 How many ATP will be formed by oxidation of 1 mole glucose: (1) 36 (2) 40 (3) 24 (4) 32  Q.95 400 ml gas at 500 torr and 666.6 ml gas at 600 torr taken in a container of 3 litre then the total pressure of mixture: (1) 200 torr (2) 400 torr (3) 600 torr (4) 50 torr  Q.96 Which of the following is steroid harmones: (1) Progesterone (2) Cholesterole (3) ACTH (4) Adrenaline  Q.97 The dipole moment of compound AB is 10.92 D		•			(3) $7 \times 10^{10}$ ton (4) $7 \times 10^{11}$ ton
(1) O <sup>-2</sup> (2) OH <sup>-</sup> (3) O <sub>2</sub> (4) O <sub>2</sub> (3) What is false for mole fraction: (1) x < 1 (2) − 2 ≤ x ≤ 2 (3) 0 ≤ x ≤ 1 (4) Always non-negative  (P.92 MgO and NaCl has similar structure. In MgO magnesiuem is surrounded by how many oxygen atoms: (1) 2 (2) 4 (3) 6 (4) 1  (P.93 General behaviour of O <sub>3</sub> is: (1) Gives electrons (2) Gives O <sub>2</sub> (3) Reaction with H <sub>2</sub> (4) Accept electrons (1) 36 (2) 40 (3) 24 (4) 32  (P.95 400 ml gas at 500 torr and 666.6 ml gas at 600 torr taken in a container of 3 litre then the total pressure of mixture: (1) 200 torr (2) 400 torr (3) 600 torr (4) 50 torr  (3) 600 torr (4) Adrenaline  (1) Green house effect (2) Hunting (3) Soil erosion (4) Destruction of natural habitats (2) Gene library (3) Bordeaux mixture (4) Azaderectnin (2) Energy plantation (3) Cultivation of sugar cane then energy obtain by burning it (4) Solar cooker (4) Solar cooker (2) Hunting (3) Soil erosion (4) Destruction of natural habitats (2) Gene library (3) Bordeaux mixture (4) Azaderectnin (3) Cultivation of sugar cane then energy obtain by burning it (4) Solar cooker (2) Hunting (3) Soil erosion (4) Destruction of natural habitats (2) Gene library (3) Bordeaux mixture (4) Azaderectnin (3) Cultivation of sugar cane then energy obtain by burning it (4) Solar cooker (2) Hunting (3) Soil erosion (4) Destruction of natural habitats (2) Gene library (3) Bordeaux mixture (4) Azaderectnin (3) Cultivation of sugar cane then energy obtain by burning it (4) Solar cooker (2) Hunting (3) Soil erosion (4) Destruction of natural habitats (2) Gene library (3) By growing them in natural habitats (2) Gene library (3) By growing them in natural habitats (2) Gene library (3) By growing them in natural habitats (2) Gene library (3) By growing them in natural habitats (2) Gene library (3) By growing them in natural habitats (2) Gene library (3) By growing them in natural habitats (2) Gene library (3) By growing them in natural habitats (4) Energy plantation (5) Cultivation of sugar cane then energy obtain by burning it (4) Solar cooker	0.00	` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	` ' ' ' '	Q.103	Most stable pesticides:
<ul> <li>Q.91 What is false for mole fraction: (1) x &lt; 1 (2) - 2 ≤ x ≤ 2 (3) 0 ≤ x ≤ 1 (4) Always non-negative</li> <li>Q.92 MgO and NaCl has similar structure. In MgO magnesiuem is surrounded by how many oxygen atoms: (1) 2 (2) 4 (3) 6 (4) 1</li> <li>Q.93 General behaviour of O<sub>3</sub> is: (1) Gives electrons (2) Gives O<sub>2</sub> (3) Reaction with H<sub>2</sub> (4) Accept electrons</li> <li>Q.94 How many ATP will be formed by oxidation of 1 mole glucose: (1) 36 (2) 40 (3) 24 (4) 32</li> <li>Q.95 400 ml gas at 500 torr and 666.6 ml gas at 600 torr taken in a container of 3 litre then the total pressure of mixture: (1) 200 torr (2) 400 torr (3) 600 torr (4) 50 torr</li> <li>Q.96 Which of the following is steroid harmones: (1) Progesterone (2) Cholesterole (3) ACTH (4) Adrenaline</li> <li>Q.97 The dipole moment of compound AB is 10.92 D</li> <li>Q.104 Sest economic method to harvest the solar energy: (1) Solar cell (2) Energy plantation</li> <li>(3) Cultivation of sugar cane then energy obtain by burning it</li> <li>(4) Solar cooker</li> <li>(2) Energy plantation</li> <li>(3) Cultivation of sugar cane then energy obtain by burning it</li> <li>(4) Solar cooker</li> <li>(2) Hunting</li> <li>(3) Soil erosion</li> <li>(4) Destruction of natural habitats</li> <li>(2) Hunting</li> <li>(3) Soil erosion</li> <li>(4) Destruction of natural habitats</li> <li>(2) Gene library</li> <li>(3) By growing them in natural habitats</li> <li>(2) Gene library</li> <li>(3) By storing-seeds</li> <li>(4) Cryopresevation</li> <li>(5) Facilitate the identification of unknown species</li> <li>(6) Energy plantation</li> <li>(7) Practical purpose of taxonomy or classification:</li> <li>(1) Facilitate the identification of unknown species</li> <li>(2) Explain the origin of organisms</li> </ul>	Q.90	_			(1) Organophosphates (2) Organochlorines
(1) x < 1 (2) − 2 ≤ x ≤ 2 (3) 0 ≤ x ≤ 1 (4) Always non-negative  Q.92 MgO and NaCl has similar structure. In MgO magnesiuem is surrounded by how many oxygen atoms:  (1) 2 (2) 4 (3) 6 (4) 1  Q.93 General behaviour of O₃ is: (1) Gives electrons (2) Gives O₂ (3) Reaction with H₂ (4) Accept electrons  Q.94 How many ATP will be formed by oxidation of 1 mole glucose: (1) 36 (2) 40 (3) 24 (4) 32  Q.95 400 ml gas at 500 torr and 666.6 ml gas at 600 torr taken in a container of 3 litre then the total pressure of mixture: (1) 200 torr (2) 400 torr (3) 600 torr (4) 50 torr  Q.96 Which of the following is steroid harmones: (1) Progesterone (2) Cholesterole (3) ACTH (4) Adrenaline  Q.97 The dipole moment of compound AB is 10.92 D		$(1) O^{-2}$ $(2) OH^{-}$	$(3) O_2^- $ $(4) O_2$		(3) Bordeaux mixture (4) Azaderectnin
(3) 0 ≤ x ≤ 1 (4) Always non-negative  Q.92 MgO and NaCl has similar structure. In MgO magnesiuem is surrounded by how many oxygen atoms:  (1) 2 (2) 4 (3) 6 (4) 1  Q.93 General behaviour of O₃ is: (1) Gives electrons (2) Gives O₂ (3) Reaction with H₂ (4) Accept electrons  Q.94 How many ATP will be formed by oxidation of 1 mole glucose: (1) 36 (2) 40 (3) 24 (4) 32  Q.95 400 ml gas at 500 torr and 666.6 ml gas at 600 torr taken in a container of 3 litre then the total pressure of mixture: (1) 200 torr (2) 400 torr (3) 600 torr (4) 50 torr  Q.96 Which of the following is steroid harmones: (1) Progesterone (2) Cholesterole (3) ACTH (4) Adrenaline  Q.97 The dipole moment of compound AB is 10.92 D  (1) Solar cell (2) Energy plantation (3) Cultivation of sugar cane then energy obtain by burning it (4) Solar cooker  Q.105 Main reason of disturbance of biological diversity: (1) Green house effect (2) Hunting (3) Soil erosion (4) Destruction of natural habitats (2) Gene library (3) By storing seeds (4) Cryopreservation (4) Cryopreservation (5) Facilitate the identification of unknown species (2) Explain the origin of organisms	Q.91	What is false for mo	ole fraction :	Q.104	Best economic method to harvest the solar
Q.92 MgO and NaCl has similar structure. In MgO magnesiuem is surrounded by how many oxygen atoms:  (1) 2 (2) 4 (3) 6 (4) 1  Q.93 General behaviour of O <sub>3</sub> is: (1) Gives electrons (2) Gives O <sub>2</sub> (3) Reaction with H <sub>2</sub> (4) Accept electrons  Q.94 How many ATP will be formed by oxidation of 1 mole glucose: (1) 36 (2) 40 (3) 24 (4) 32  Q.95 400 ml gas at 500 torr and 666.6 ml gas at 600 torr taken in a container of 3 litre then the total pressure of mixture: (1) 200 torr (2) 400 torr (3) 600 torr (4) 50 torr  Q.96 Which of the following is steroid harmones: (1) Progesterone (2) Cholesterole (3) ACTH (4) Adrenaline  Q.97 The dipole moment of compound AB is 10.92 D		(1) x < 1	$(2)-2\leq x\leq 2$		energy:
<ul> <li>Q.92 MgO and NaCl has similar structure. In MgO magnesiuem is surrounded by how many oxygen atoms: <ul> <li>(1) 2 (2) 4 (3) 6 (4) 1</li> <li>Q.93 General behaviour of O<sub>3</sub> is: <ul> <li>(1) Gives electrons (2) Gives O<sub>2</sub></li> <li>(3) Reaction with H<sub>2</sub> (4) Accept electrons</li> </ul> </li> <li>Q.94 How many ATP will be formed by oxidation of 1 mole glucose: <ul> <li>(1) 36 (2) 40</li> <li>(3) 24 (4) 32</li> </ul> </li> <li>Q.95 400 ml gas at 500 torr and 666.6 ml gas at 600 torr taken in a container of 3 litre then the total pressure of mixture: <ul> <li>(1) 200 torr</li> <li>(2) Energy plantation</li> </ul> </li> <li>Q.105 Main reason of disturbance of biological diversity: <ul> <li>(1) Green house effect</li> <li>(2) Hunting</li> <li>(3) Soil erosion</li> <li>(4) Destruction of natural habitats</li> </ul> </li> <li>Q.106 Best method to preserve the wild relatives of plants: <ul> <li>(1) By growing them in natural habitats</li> <li>(2) Gene library</li> <li>(3) By storing seeds</li> <li>(4) Cryopreservation</li> </ul> </li> <li>Q.96 Which of the following is steroid harmones: <ul> <li>(1) Progesterone</li> <li>(2) Cholesterole</li> <li>(3) Cultivation of sugar cane then energy obtain by burning it</li> </ul> </li> <li>(4) Solar cooker</li> <li>(2) Hunting</li> <li>(3) Soil erosion</li> <li>(4) Destruction of natural habitats</li> <li>(2) Gene library</li> <li>(3) By growing them in natural habitats</li> <li>(2) Gene library</li> <li>(3) By storing seeds</li> <li>(4) Cryopreservation</li> </ul> </li> <li>Q.107 Practical purpose of taxonomy or classification: <ul> <li>(1) Facilitate the identification of unknown species</li> <li>(2) Explain the origin of organisms</li> </ul> </li> </ul>		$(3) 0 \le x \le 1$	(4) Always non-negative		(1) Solar cell
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O.97 The dipole moment of compound AB is 10.92 D  (2) Explain the origin of organisms			` '		
1 ne dipole moment of compound AB is 10.92 D	0 0 <b>=</b>	` '	` '		•
(2) T 1 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<b>Q.9</b> 7	-	-		
and that of compound CD is 12.45 D. The bond		and that of compound CD is 12.45 D. The bond length AB is 2.72 A <sup>0</sup> and that of CD is 2.56 A <sup>0</sup>			
- C		then for these compound true statement is:		0.108	- · ·
(1) More ionic nature in AB (1) Mycobacterium leprae				Z.100	
(2) More ionic nature in CD (2) Tuberculosis		* *			- · · ·
(3) Equal in both (3) Pneumonia		* *			
(4) Not predicted (4) Cholera		· · · =			

			AIPMT - 1999
Q.109	Amount of cellular DNA increases during :	Q.121	Ornithophilly takes place in :
	(1) Cytokinesis (2) Fertilisation		(1) Yellow flower having nectaries
	(3) Mutation (4) Respiration		(2) Scented flower
Q.110	Initiation codon in eukaryotes :		(3) Flower with charming colour
	(1) UGA (2) CCA		(4) Modified corolla tube
	(3) AGA (4) AUG	Q.122	Bhopal gas tragedy is related with:
Q.111	Transition of exarch bundles of root to endarch		(1) Methane
	bundles of stem occurs in:		(2) Carban mono oxide
	(1) Epicotyl (2) Hypocotyl		(3) Methyl Iso cyanate (MIC)
	(3) Apical bud (4) Coleoptile		(4) SO <sub>2</sub>
Q.112	Which induces the development of corpus	Q.123	Concentration of DDT is highest in:
	Luteum:		(1) Primary consumer
	(1) LH (2) Oestrogen		(2) Producers
	$(3) FSH \qquad \qquad (4) LTH$		(3) Top consumer
Q.113	Plant pathogenic bacteria are mostly:		(4) Decomposers
	(1) Gram + Non spore forming	Q.124	Percentage energy transferred to higher tropic
	(2) Gram – Non spore forming		level in food chain is:
	(3) Gram + spore forming		(1) 1% (2) 10% (3) 90% (4) 100%
	(4) Gram (–) spore forming	Q.125	What change occurs by changing one base in
Q.114	First transgenic plant :		DNA:
	(1) Potato (2) Tomato		(1) Always a change of one amino acid in
	(3) Tobacco (4) Maize		protein
Q.115	Dolly sheep was obtained by:		(2) Change in complex sequence of amino acid
	(1) Cloning the udder cell (somatic cell) fused		(4) Poss not reassessibly shows the phoneture
	with unnucleated oocyte (2) Cloning of gametes	Q.126	(4) Does not necessarily change the phenotype HIV infects:
	<ul><li>(2) Cloning of gametes</li><li>(3) Tissue culture</li></ul>	Q.120	(1) RBC (2) T – helper cells
	(4) None		(3) B - cells (4) Basophils
Q.116	CCK and secretin secreted by :	Q.127	Which of the following statement is true for
Q.110	(1) Stomach (2) Ileum	Q.127	bryophyta -
	(3) Duodenum (4) Colon		(1) Along with water absorption roots also
Q.117	Suspensory ligaments are found in :		provide anchorment to plants
<b>Q.11</b> ,	(1) Brain (2) Eyes		(2) Sporophyte is dominant
	(3) Liver (4) Pancrease		(3) Gametophyte is dominant and sporophyte
Q.118	Life span of worker honey bee :		is mostly parasitic
<b>Q</b>	(1) 30 days (2) 15 days		(4) Gametophyte is parasitic
	(3) 90 days (4) 10 days	Q.128	Lichens can be used as:
Q.119	Para thormone deficiency leads to:		(1) Bio-indicator for water and air pollution
<b>C</b>	(1) Decrease of Ca <sup>+2</sup> level in blood		(2) Initial vegetation for waste lands
	(2) Increase of Ca <sup>+2</sup> level in blood		(3) Source of wood
	(3) Osteoporosis		(4) To check the air pollution
	(4) Hypercalemia	Q.129	Biotic and abiotic components form:
Q.120	Gene composed of:		(1) Community (2) Society
~··-	(1) Amino acids (2) Polynucleotide	_	(3) Population (4) Species
	(3) Fatty acid (4) Nitrogen bases	Q.130	Endosperm in Gymnosperm is:
	(1) Thirdgen dates		(1) Polyploid (2) Diploid
			(3) Triploid (4) Haploid

(4) E.R.

(3) P

(4) N

(4) Beriberi – Vitamin K

(4) Only collagen fibres

•	formed) due to the pollution of pesticides. This is due to interference in the activity of:				
	(1) Ca ATPase				
	(3) Calmodulin	· / ·			
Q.194	Agglutination occurs tube. This indicate:	in blood present in a test			
	(1) Antibodies are pro	=			
	(2) Antigens are present				
	(3) Antigens are prese	•			
	(4) Antibodies are pre	esent on R.B.C.			
Q.195		of protein, which is attached lining the pores of cell			
	(1) α-Helix	(2) β-Strand			
	(3) β-Chain	(4) Random			
Q.196	Recently extinct anim (1) Acinonyx	nal from India is :			
	(2) Rhinoceros unicon	rnieus			
	(3) Panthera leo				
	(4) Panthera tigris				
Q.197	Simplest reflex action	n in human is :			
	(1) Mono synaptic	(2) Bi synaptic			
	(3) Tri synaptic	(4) Poly synaptic			
Q.198	In inducible operon, regulatory gene synthesize				
	(1) Promoter	(2) Operator			
	(3) Repressor	(4) Aporepressor			
Q.199	Neuroglial cells associated with:				
	(1) Heart	(2) Kidney			
	(3) Brain	(4) Eyes			
Q.200	Diatomaceous earth is used as heat insulator boilers and steam pipes because the cell wall diatom:				
	(1) Composed of iron	) Composed of iron			
	(2) Composed of silicon dioxide				
	(3) Is conductor of he	at			
	(4) Is bad conductor of electricity				

Shell of egg in bird becomes thin (not properly

Q.193