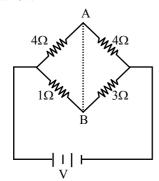
## **AIPMT - 2006**

- In producing chlorine through electrolysis 100 **Q.1** watt power at 125V is being consumed. How much chlorine per minute is liberated? E.C.E. of chlorine is  $0.367 \times 10^{-6}$  kg/coulomb:-
  - (1) 17.6 mg
- (2) 21.3 mg
- (3) 24.3 mg
- (4) 13.6 mg
- 0.2 In the circuit shown, if a conducting wire is connected between points A and B, the current in this wire will-



- (1) Flow from A to B
- (2) Flow in the direction which will be decided by the value of V
- (3) Be zero
- (4) Flow from B to A
- Q.3 A rectangular block of mass m and area of crosssection A floats in a liquid of density p. If it is given a small vertical displacement from equilibrium it undergoes oscillation with a time period T. Then:-

  - (1)  $T \propto \sqrt{\rho}$  (2)  $T \propto \frac{1}{\sqrt{\Delta}}$

  - (3)  $T \propto \frac{1}{\rho}$  (4)  $T \propto \frac{1}{\sqrt{m}}$
- **Q.4** A Carnot engine whose sink is at 300 K has an efficiency of 40%. By how much should the temperature of source be increased so as to increase its efficiency by 50% of original efficiency:-
  - (1) 275 K
- (2) 325 K
- (3) 250 K
- (4) 380 K

- When a charged particle moving with velocity Q.5  $\vec{V}$  is subjected to a magnetic field of induction  $\vec{B}$ , the force on it is non-zero. This implies the:-
  - (1) Angle between  $\vec{V}$  and  $\vec{B}$  is necessary 90°
  - (2) Angle between  $\vec{V}$  and  $\vec{B}$  can have at value other than 90°
  - (3) Angle between  $\vec{V}$  and  $\vec{B}$  can have at value other than zero and 180°
  - (4) Angle between  $\vec{V}$  and  $\vec{B}$  is either zero or 180°
- 0.6 Two cells, having the same e.m.f., are connected in series through an external resistance R. Cell have internal resistances  $r_1$  and  $r_2$  ( $r_1 > r_2$ ) respectively. When the circuit is closed, the potential difference across the first cell is zero. The value of R is:-

  - (1)  $r_1 r_2$  (2)  $\frac{r_1 + r_2}{2}$
  - (3)  $\frac{\mathbf{r}_1 \mathbf{r}_2}{2}$  (4)  $\mathbf{r}_1 + \mathbf{r}_2$
- **Q.7** A black body at 1227°C emits radiations with maximum intensity at a wavelength of 5000Å. The temperature of the body is increased by 1000°C, the maximum intensity will be observe at:-
  - (1) 4000Å
- (2) 5000Å
- (3) 6000Å
- (4) 3000Å
- 0.8 Two circular coil 1 and 2 are made from the same wire but the radius of the 1st coil is twice that of the 2<sup>nd</sup> coil. What potential difference in volts should be applied across them so that the magnetic field at their centres is the same-
  - (1) 3
- (2)4
- (3) 6
- (4) 2
- **Q.9** A transistor-oscillator using a resonant circuit with an inductor L (of negligible resistance) and a capacitor C in series produce oscillations of frequency f. If L is doubled and C is changed to 4C, the frequency will be:-
  - (1)  $\frac{f}{4}$  (2) 8f (3)  $\frac{f}{2\sqrt{2}}$  (4)  $\frac{f}{2}$

Q.10	The binding energy of deuteron is 2.2 MeV and			
	that of <sup>4</sup> <sub>2</sub> He is 28MeV. If two deuterons are			
	fused to form one <sup>4</sup> <sub>2</sub> He then the energy released			
	is:-			

- (1) 25.8 MeV
- (2) 23.6 MeV
- (3) 19.2 MeV
- (4) 30.2 MeV

## Q.11 In a radioactive material the activity at time $t_1$ is $R_1$ and at a later time $t_2$ , it is $R_2$ . If the decay constant of the material is $\lambda$ , then

- (1)  $R_1 = R_2 e^{-\lambda(t_1 t_2)}$  (2)  $R_1 = R_2 e^{\lambda(t_1 t_2)}$
- (3)  $R_1 = R_2 (t_2/t_1)$  (4)  $R_1 = R_2$

## Q.12 Ionization potential of hydrogen atom is 13.6eV. Hydrogen atoms in the ground state are excited by monochromatic radiation of photon energy 12.1 eV. According to Bohr's theory, the spectral lines emitted by hydrogen will be:-

- (1) Two
- (2) Three
- (3) Four
- (4) One
- Q.13 The potential energy of a long spring when stretched by 2 cm is U. If the spring is stretched by 8 cm the potential energy stored in it is:-
  - (1)4U
- (2) 8U
- (3) 16U
- (4)  $\frac{U}{4}$
- Q.14 For angles of projection of a projectile at angles  $(45^{\circ} - \theta)$  and  $(45^{\circ} + \theta)$ , the horizontal ranges described by the projectile are in the ratio of:
  - (1) 1 : 1
- (2) 2 : 3
- (3)1:2
- (4) 2:1
- Q.15 A body of mass 3 kg is under a constant force which causes a displacement s in metres in it, given by the relation  $s = \frac{1}{3}t^2$ , where t is in seconds. Work done by the force in 2 seconds is:-
  - $(1) \frac{5}{19} J$   $(2) \frac{3}{8} J$   $(3) \frac{8}{3} J$   $(4) \frac{19}{5} J$

- Q.16 A particle moves along a straight line OX. At a time t (in seconds) the distance x (in metres) of the particle from O is given by  $x = 40 + 12t - t^3$ . How long would the particle travel before coming to rest: -
  - (1) 24 m (2) 40 m (3) 56 m
- (4) 16 m

The velocity v of a particle at time t is given by  $v = at + \frac{b}{t + c}$ , where a, b and c are constants.

The dimensions of a, b and c are respectively:-

- (1)  $LT^{-2}$ , L and T (2)  $L^{2}$ , T and  $LT^{2}$
- (3)  $LT^2$ , LT and L (4) L, LT and  $T^2$

Q.17

- Q.18 A microscope is focused on a mark on a piece of paper and then a slab of glass of thickness 3 cm and refractive index 1.5 is placed over the mark. How should the microscope be moved to get the mark in focus again:-
  - (1) 1 cm upward
- (2) 4.5 cm downward
- (3) 1 cm downward (4) 2 cm upward
- Q.19 300 J of work is done in sliding a 2 kg block up an inclined plane of height 10m. Taking  $g = 10 \text{ m/s}^2$ , work done against friction is
  - (1) 200 J
- (2) 100 J
- (3) Zero
- (4) 1000 J
- Q.20 A transistor is operated in common emitter configuration at constant collector voltage  $V_c = 1.5 \text{ V}$  such that a change in the base current from 100 µA to 150 µA produces a change in the collector current from 5 mA to 10 mA. The current gain (β) is:-
  - (1)67
- (2)75
- (3) 100
- (4)50
- Q.21 A forward biased diode is:-

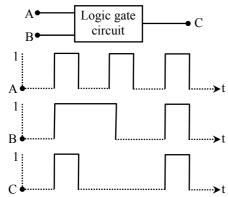


(3) 
$$\frac{-2V}{}$$
 **W**  $\frac{+2V}{}$ 

$$(4) \xrightarrow{\text{0V}} \text{ww} -2\text{V}$$

- Q.22 A photo-cell employs photoelectric effect to convert:-
  - (1) Change in the frequency of light into a change in electric voltage
  - (2) Change in the intensity of illumination into a change in photoelectric current
  - (3) Change in the intensity of illumination into a change in the work function of the photocathode
  - (4) Change in the frequency of light into a change in the electric current

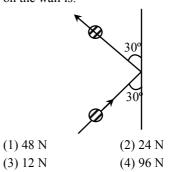
- Q.23 The core of a transformer is laminated because:-
  - (1) Energy losses due to eddy currents may be minimised
  - (2) The weight of the transformer may be reduced
  - (3) Rusting of the core may be prevented
  - (4) Ratio of voltage in primary and secondary may be increased
- Q.24 Two coils of self inductances 2 mH and 8 mH are placed so close together that the effective flux in one coil is completely linked with the other. The mutual inductance between these coils is:
  - (1) 10 mH
- (2) 6mH
- (3) 4 mH
- (4) 16 mH
- Q.25 In a discharge tube ionization of enclosed gas produced due to collisions between:
  - (1) Positive ions and neutral atoms/molecules
  - (2) Negative electrons and netural atoms/molecules
  - (3) Photons and neutral atoms/molecules
  - (4) Neutral gas atoms/molecules
- Q.26 When photons of energy hy fall on an aluminium plate (of work function E<sub>0</sub>), photoelectrons of maximum kinetic energy K are ejected. If the frequency of the radiation is doubled, the maximum kinetic energy of the ejected photoelectrons will be
  - (1)  $K + E_0$
- (2) 2K
- (3) K
- (4) K + hv
- Q.27 The following figure shows a logic gate circuit with two inputs A and B and the output C. The voltage waveforms of A, B and C are as shown below-



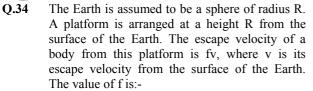
The logic circuit gate is:

- (1) AND gate
- (2) NAND gate
- (3) NOR gate
- (4) OR gate

- Q.28 A coil of inductive reactance  $31\Omega$  has a resistance of  $8\Omega$ . It is placed in series with a condenser of capacity reactance  $25\Omega$ . The combination is connected to an a.c. source of 110 volt. The power factor of the circuit is:-
  - (1) 0.56
- (2) 0.64
- (3) 0.80
- (4) 0.33
- Q.29 A 0.5 kg ball moving with a speed of 12 m/s strikes a hard wall at an angle of 30° with the wall. It is reflected with the same speed and at the same angle. If the ball is in contact with the wall for 0.25 seconds, the average force acting on the wall is:-

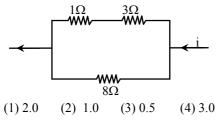


- O.30 The moment of inertia of a uniform circular disc of radius 'R' and mass 'M' about an axis touching the disc at its diameter and normal to the disc is:-
  - (1) MR<sup>2</sup>
- (2)  $\frac{2}{5}$  MR<sup>2</sup>
- (3)  $\frac{3}{2}$  MR<sup>2</sup>
- (4)  $\frac{1}{2}$  MR<sup>2</sup>
- Q.31 The momentum of a photon of energy 1MeV in kg m/s, will be-
  - $(1) 0.33 \times 10^6$
- (2)  $7 \times 10^{-24}$
- $(3)\ 10^{-22}$
- $(4)\ 5\times 10^{-22}$
- Q.32 The radius of Germanium (Ge) nuclide is measured to be twice the radius of <sup>9</sup><sub>4</sub>Be. The number of nucleons in Ge are:-
  - (1)73
- (2)74
- (3)75
- (4)72
- Q.33 The molar specific heat at constant pressure of an ideal gas is  $\left(\frac{7}{2}\right)$ R. The ratio of specific heat at constant pressure to that at constant volume is:-
  - (1)  $\frac{7}{5}$  (2)  $\frac{8}{7}$  (3)  $\frac{5}{7}$  (4)  $\frac{9}{7}$



(1) 
$$\sqrt{2}$$
 (2)  $\frac{1}{\sqrt{2}}$  (3)  $\frac{1}{3}$  (4)  $\frac{1}{2}$ 

- Q.35 Two sound waves with wavelength 5.0 m and 5.5 m respectively, each propagate in a gas with velocity 330 m/s. We expect the following number of beats per second:-
  - (1) 12
- (2) 0
- (3) 1
- (4)6
- 0.36 Power dissipated across the  $8\Omega$  resistor in the circuit shown here is 2 watt. The power dissipated in watt units across the  $3\Omega$  resistor is:-



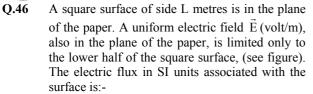
- Q.37 Kirchhoff's first and second laws for electrical circuits are consequences of:-
  - (1) Conservation of energy
  - (2) Conservation of electric charge and energy respectively
  - (3) Conservation of electric charge
  - (4) Conservation of energy and electric charge respectively
- Q.38 A transverse wave propagating along x-axis is represented by

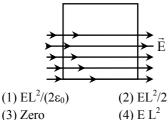
$$y(x, t) = 8.0 \sin (0.5\pi x - 4\pi t - \frac{\pi}{4})$$

where x is in metres and t is in seconds. The speed of the wave is:-

- (1)  $4\pi$  m/s
- (2)  $0.5 \pi \text{ m/s}$
- (3)  $\frac{\pi}{4}$  m/s
- (4) 8 m/s
- Q.39 The time of reverberation of a room A is one second. What will be the time (in seconds) of reverberation of a room, having all the dimensions double of those of room A-
  - (1) 2
- $(3) \frac{1}{2}$ (4) 1

- Q.40 Which one of the following statements is true:
  - (1) Both light and sound waves in air are transverse
  - (2) The sound waves in air are longitudinal while the light waves are transverse
  - (3) Both light and sound waves in air are longitudinal
  - (4) Both light and sound waves can travel in vacuum
  - Q.41 Above Curie temperature:-
    - (1)A ferromagnetic substance becomes paramagnetic
    - (2) A paramagnetic substance becomes diamagnetic
    - (3) A diamagnetic substance becomes paramagnetic
    - (4) A paramagnetic substance becomes ferromagnetic
  - Q.42 A convex lens and a concave lens, each having same focal length of 25 cm, are put in contact to form a combination of lenses. The power in dipoters of the combination is:-
    - (1)25
- (2)50
- (3) Infinite
- (4) Zero
- 0.43 An electric dipole of moment  $\vec{p}$  is lying along a uniform electric field E. The work done in rotating the dipole by 90° is:-
  - (1)  $\sqrt{2} \text{ pE}$  (2)  $\frac{\text{pE}}{2}$
  - (3) 2pE
- (4) p E
- Q.44 A parallel plate air capacitor is charged to a potential difference of V volts. After disconnecting the charging battery the distance between the plates of the capacitor is increased using an insulating handle. As a result the potential difference between the plates:-
  - (1) Decreases
- (2) Does not change
- (3) Becomes zero
- (4) Increases
- A car runs at a constant speed on a circular track Q.45 of radius 100 m, taking 62.8 seconds for every circular lap. The average velocity and average speed for each circular lap respectively is:
  - (1) 0, 0
- (2) 0, 10 m/s
- (3) 10 m/s, 10 m/s
- (4) 10 m/s, 0





Q.47 A tube of length L is filled completely with an incompressible liquid of mass M and closed at both the ends. The tube is then rotated in a horizontal plane about one of its ends with a uniform angular velocity ω. The force exerted by the liquid at the other ends is:-

(1) 
$$\frac{\text{ML}\omega^2}{2}$$

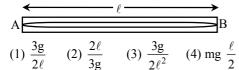
$$(1) \frac{ML\omega^2}{2} \qquad (2) \frac{ML^2\omega}{2}$$

$$(3) M L\omega^2$$

$$(3) M L\omega^2 \qquad (4) \frac{ML^2\omega^2}{2}$$

Q.48 A uniform rod of length  $\ell$  and mass m is free to rotate in a vertical plane about A. The rod initially in horizontal position is released. The initial angular acceleration of the rod is (Moment

of inertia of rod about A is  $\frac{m\ell^2}{3}$ ):



The vectors  $\vec{A}$  and  $\vec{B}$  are such that Q.49  $|\vec{A} + \vec{B}| = |\vec{A} - \vec{B}|$ . The angle between the two vectors is:-

- $(1) 90^{\circ}$
- $(2) 60^{\circ}$
- $(3) 75^{\circ}$
- $(4) 45^{\circ}$

Q.50 Two bodies, A(of mass 1kg) and B(of mass 3kg), are dropped from heights of 16 m and 25 m respectively. The ratio of the time taken by them to reach the ground is:-

- $(1) \frac{5}{4}$   $(2) \frac{12}{5}$   $(3) \frac{5}{12}$   $(4) \frac{4}{5}$

- Q.51 Identify the correct statement for change of Gibbs energy for a system ( $\Delta G_{\text{system}}$ ) at constant temperature and pressure:-
  - (1) If  $\Delta G_{\text{system}} > 0$ , the process is spontaneous
  - (2) If  $\Delta G_{\text{system}} = 0$ , the system has attained equilibrium
  - (3) If  $\Delta G_{\text{system}} = 0$ , the system is still moving in a particular direction
  - (4) If  $\Delta G_{system}$  < 0, the process is not spontaneous

A solution containing 10 g per dm<sup>3</sup> of urea Q.52 (molecular mass =  $60 \text{ g mol}^{-1}$ ) is isotonic with a 5% solution of a nonvolatile solute. The molecular mass of this nonvolatile solution is:

- (1)  $250 \text{ g mol}^{-1}$
- (2)  $300 \text{ g mol}^{-1}$
- (3)  $350 \text{ g mol}^{-1}$  (4)  $200 \text{ g mol}^{-1}$

A plot of log x/m versus log p for the adsorption Q.53 of a gas on a solid gives a straight line with slope equal to:

- $(1) \log K$
- (2) n
- $(3) \frac{1}{-}$
- (4) log K

Q.54 Assume each reaction is carried out in an open container. For which reaction will  $\Delta H = \Delta E$ ?

- $(1) H_2(g) + Br_2(g) \rightarrow 2HBr(g)$
- $(2) C(s) + 2H_2O(g) \rightarrow 2H_2(g) + CO_2(g)$
- (3)  $PCl_5(g) \rightarrow PCl_3(g) + Cl_2(g)$
- (4) 2CO(g) + O<sub>2</sub>(g)  $\rightarrow$  2CO<sub>2</sub>(g)

Q.55 In a set off reactions propionic acid yielded a compound D.

$$\begin{array}{c} CH_{3}CH_{2}COOH & \xrightarrow{SOCl_{2}} B \xrightarrow{NH_{3}} C \\ & \xrightarrow{KOH} D \end{array}$$

The structure of D would be:-

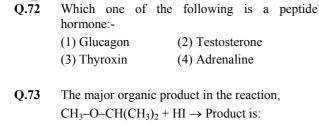
- (1) CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>NH<sub>2</sub> (2) CH<sub>3</sub>CH<sub>2</sub>CONH<sub>2</sub>
- (3) CH<sub>2</sub>CH<sub>2</sub>NHCH<sub>3</sub> (4) CH<sub>3</sub>CH<sub>2</sub>NH<sub>2</sub>
- Q.56 During the process of digestion, the proteins present in food materials are hydrolysed to amino acids. The two enzymes involved in the process:

Proteins  $\xrightarrow{\text{Enzyme(A)}}$  Polypeptides  $\xrightarrow{\text{Enzyme}(B)}$  Amino acids,

are respectively-

- (1) Amylase and Maltase
- (2) Diastase and Lipase
- (3) Pepsin and Trypsin
- (4) Invertase and Zymase

Q.57	The human body does not produce:-	Q.65	The appearance of colour in solid alkali metal	
	(1) DNA (2) Vitamin		halides is generally	
	(3) Hormones (4) Enzymes		<ul><li>(1) F-centres</li><li>(3) Frenkel defect</li></ul>	<ul><li>(2) Schottky defect</li><li>(4) Interstitial positions</li></ul>
Q.58	CsBr crystallizes in a body centred. The unit cell length is 436.6 pm. G atomic mass of Cs = 133 and that of and Avogadro number being 6.02 > the density of CsBr is:-  (1) 42.5 g/cm <sup>3</sup> (2) 0.425 g/cm	iven that the Br = 80 amu $< 10^{23} \text{ mol}^{-1},$	The general mo	olecular formula, which logus series of alkanols is:- (2) C <sub>n</sub> H <sub>2n</sub> O
	(3) $8.25 \text{ g/cm}^3$ (4) $4.25 \text{ g/cm}^3$	Q.67	If $E_{Fe^{2+}/Fe}^{\circ} = -0.44$	1 V and
Q.59	More number of oxidation states are the actinoids than by the lanthonoid reason for this is:-  (1) More energy difference between orbitals than that between 4f and (2) Lesser energy difference between orbitals than between 4f and 5d (3) Greater metallic character of the than that of the corresponding as (4) More active nature of the actinoid	en 5f and 6d d 5d orbitals en 5f and 6d orbitals e lanthanoids etinoids	(1) 0.330 V (3) 1.212 V For the reaction : 2A + B -	+ $2Fe^{3+}$ → $3Fe^{2+}$ will be: (2) 1.653 V
Q.60	Given: The mass of electron is 9.1 Planck constant is $6.626 \times 10^{-34}$ Js, th involved in the measurement of velo distance of 0.1Å is:- (1) $5.79 \times 10^6 \text{ ms}^{-1}$ (2) $5.79 \times 10^7$ (3) $5.79 \times 10^8 \text{ ms}^{-1}$ (4) $5.79 \times 10^5 \text{ ms}^{-1}$	e uncertainty city within a ms <sup>-1</sup>	(1) $-\frac{d[C]}{3dt}$ (3) $\frac{d[D]}{dt}$ For the reaction :	$(2) - \frac{d[B]}{dt}$ $(4) - \frac{d[A]}{2dt}$
	` ,			$ ightharpoonup CO_2(g) + 2H_2O(\ell)$
Q.61	Copper sulphate dissolved in excess	s of KCN to		$- \cos_2(g) + 2\Pi_2 \cos(\epsilon)$ 170.8 kJ mol <sup>-1</sup>
Q.62	give:- (1) CuCN (2) [Cu(CN) <sub>4</sub> ] (3) [Cu(CN) <sub>4</sub> ] <sup>2-</sup> (4) Cu(CN) <sub>2</sub> In which of the following pairs are locoloured in aqueous solution-		Which of the follow (1) At equilibrium, and H <sub>2</sub> O(ℓ) are (2) The equilibrium	ting statements is not true:- the concentrations of CO <sub>2</sub> (g) not equal a constant for the reaction is
	(1) $Ni^{2+}$ , $Ti^{3+}$ (2) $Sc^{3+}$ , $Ti^{3+}$ (3) $Sc^{3+}$ , $Co^{2+}$ (4) $Ni^{2+}$ , $Cu^{+}$ [At. No.: $Sc = 21$ , $Ti = 22$ , $Ni = 28$ , $Cu = 28$	= 29, Co = 27]	given by K <sub>P</sub> = - (3) Addition of CH will cause a shi	$H_4(g)$ or $O_2(g)$ at equilibrium
Q.63	Al <sub>2</sub> O <sub>3</sub> can be converted to anhydro heating:- (1) Al <sub>2</sub> O <sub>3</sub> with HCl gas	ous AlCl <sub>3</sub> by Q.70	(4) The reaction is e [NH(CH <sub>2</sub> )NHCO(C	exothermic
	<ul> <li>(2) Al<sub>2</sub>O<sub>3</sub> with NaCl in solid state</li> <li>(3) A mixture of Al<sub>2</sub>O<sub>3</sub> and carbon in</li> <li>(4) Al<sub>2</sub>O<sub>3</sub> with Cl<sub>2</sub> gas</li> </ul>	dry Cl <sub>2</sub> gas	<ul><li>(1) copolymer</li><li>(2) Addition polymer</li><li>(3) Thermosetting p</li><li>(4) Homopolymer</li></ul>	er
Q.64	The enthalpy and entropy change for $P_{T}(\ell) + CL(\alpha) \rightarrow 2P_{T}CL(\alpha)$			aund regets with hydrogen
	$Br_2(\ell) + Cl_2(g) \rightarrow 2BrCl(g)$ are 30 kJ mol <sup>-1</sup> and 105 JK <sup>-1</sup> mol <sup>-1</sup> The temperature at which the reaction equilibrium is:- (1) 285.7K (2) 273 K (3) 450 K (4) 300 K		cyanide to form hydrolysis forms	cund reacts with hydrogen cyanohydrin which on a racemic mixture of e carbonyl compound is:  (2) Acetone (4) Formaldehyde



(1) 
$$CH_3-CH_2-CH_2C-CH_3$$
  
(2)  $(CH_3)_2C = O$   
(3)  $CH_3CH_2CHO$   
(4)  $CH_3CHO$ 

- (1) Ethyl butyrate (2) Acetoacetic ester
- (3) Methyl acetoacetate (4) Ethyl propionate

Q.77 Consider the reaction  

$$N_2(g) + 3H_2(g) \rightarrow 2NH_3(g)$$

The equality relationship between  $\frac{d[NH_3]}{L}$  and  $-\frac{d[H_2]}{dt}$  is :-

(1) 
$$\frac{d[NH_3]}{dt} = -\frac{1}{3} \frac{d[H_2]}{dt}$$

(2) 
$$+\frac{d[NH_3]}{dt} = -\frac{2}{3}\frac{d[H_2]}{dt}$$

(3) 
$$+\frac{d[NH_3]}{dt} = -\frac{3}{2}\frac{d[H_2]}{dt}$$

(4) 
$$\frac{d[NH_3]}{dt} = -\frac{d[H_2]}{dt}$$

- (2) 2,3-Dibromopentane (3) 3-Bromopentane
- (4) 2-Hydroxypropanoic acid

Which of the following is not chiral:-

## Q.79 [Co(NH<sub>3</sub>)<sub>4</sub>(NO<sub>2</sub>)<sub>2</sub>]Cl exhibits:-

(1) 2-Butanol

Q.78

- (1) Linkage isomerism, ionization isomerism and optical isomerism
- (2) Linkage isomerism, ionization isomerism and geometrical isomerism
- (3) Ionization isomerism, geometrical isomerism and optical isomerism
- (4) Linkage isomerism, geometrical isomerism and optical isomerism

- $(1) (3d x^2 y^2)^1$ ,  $3d z^{2^1}$ ,  $3d xz^1$  $(2) 3d xy^1, (3d x^2 - y^2)^1, 3d yz^1$
- (3)  $3dxv^{1}$ ,  $3dvz^{1}$ ,  $3dxz^{1}$
- (4)  $3d xv^1$ ,  $3d vz^1$ ,  $3dz^{2^1}$

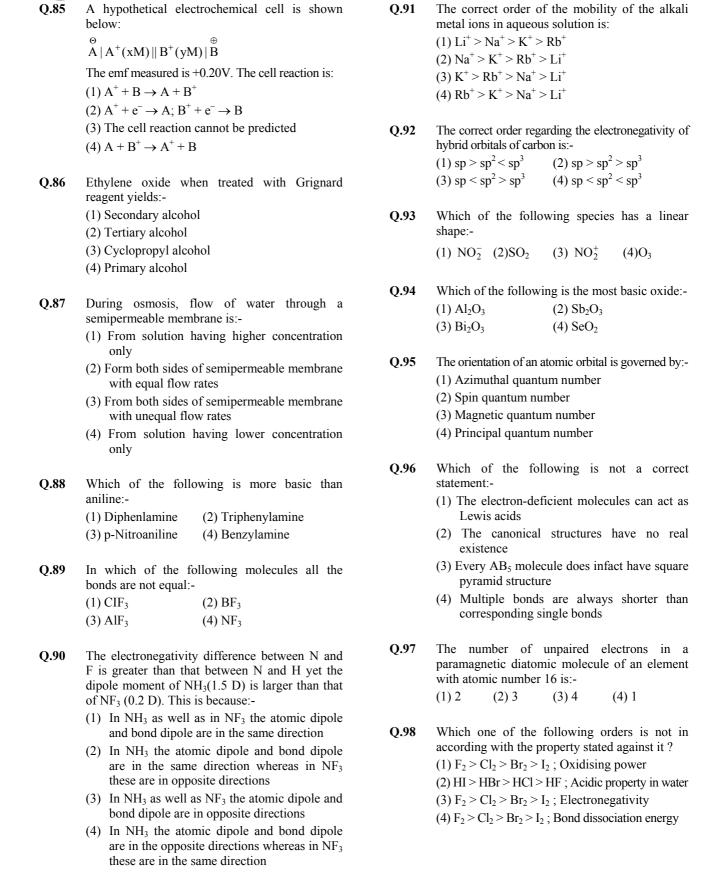
Q.81 1.00 g of a non-electrolyte solute (molar mass 
$$250 \mathrm{g \ mol^{-1}}$$
) was dissolved in 51.2 g of benzene. If the freezing point depression constant  $K_f$  of benzene is 5.12 K kg mol<sup>-1</sup>, the freezing point of benzene will be lowered by:-

- (1) 0.4 K(2) 0.3 K
- (3) 0.5 K(4) 0.2 K

- (1) HNO<sub>2</sub> & NaNO<sub>2</sub> (2) NaOH & NaCl
- (3) HNO<sub>3</sub> & NH<sub>4</sub>NO<sub>3</sub> (4) HCl & KCl

Q.83 The hydrogen ion concentration of a 
$$10^{-8}$$
M HCl aqueous solution at 298 K ( $K_W = 10^{-14}$ ) is:-
(1)  $1.0 \times 10^{-6}$  M (2)  $1.0525 \times 10^{-7}$  M

- (3)  $9.525 \times 10^{-8} \,\mathrm{M}$  (4)  $1.0 \times 10^{-8} \,\mathrm{M}$
- **O.84** A solution of acetone is ethanol:-
  - (1) Shows a negative deviation from Raoult's law
  - (2) Shows a positive deviation from Raoult's law
  - (3) Behaves like a near ideal solution
  - (4) Obeys Raoult's law



Q.99		wing is not isostructural with	Q.106	The 'blue baby' synd	
	SiCl <sub>4</sub> :-			(1) Excess of chlorid	le
	(1) SCl <sub>4</sub>	(2) $SO_4^{2-}$		(2) Methemoglobin	
	(3) $PO_4^{3-}$	$(4) NH_4^+$		(3) Excess of dissolv	
	(-) 1 - 4	(1) 11114		(4) Excess of TDS (t	total dissolved solids)
		∧ Å ∠CI	Q.107	Praying mantis is a g	good example of-
Q.100	The IUPAC name o	f Cl is:-		(1) Mullerian mimic	•
		'		(2) Warning coloura	
	(1) 3,4-dimethylpen	tanoyl chloride		(3) Social insects	
	(2) 1-chloro-1-oxo-2	2,3-dimethylpentane		(4) Camouflage	
	(3) 2-ethyl-3-methy	lbutanoyl chloride		( )	
	(4) 2,3-dimethylpen	tanoyl chloride	Q.108	Which one of the foll	owing statements is correct?
					e endocrine activity, but not
Q.101		number of chromosomes in		vice verse	
		irone layer in a plant species			ds regulate neural activity,
	with 8 chromosome				ystem regulates endocrine
	(1) 16 (2) 24	(3) 32 (4) 8		glands	
0.404	<b>D</b> : 1 ( )				s control neural activity nor trol endocrine activity
Q.102	Pineapple (ananas)	_			ds regulate neural activity,
	(1) a unilocular poly	1 2		but not vice vers	
	(2) a multipistillate	-			
	(3) a cluster of concommon axis	mpactly borne flowers on a	Q.109	Examination of bloc	od of a person suspected of
		onocarpellary flower	<b>C</b>		shows large, immature,
	(+) a mutillocular in	ionocarpenary nower			rtes without haemoglobin.
Q.103	Golden rice is a	promising transgenic crop.			diet with which of the
Q.103		cultivation, it will help in		-	alleviate his symptoms?
	(1) Alleviation of vi	_		(1) Thiamine	L. L
	(2) Pest resistance	,		(2) Folic acid and co	balamine
	(3) Herbicide tolera	nce		(3) Riboflavin	
	* /	ol-like fuel from rice		(4) Iron compounds	
	<i>( )</i>		Q.110	Farmers in a particu	ular region were concerned
Q.104	Parthenocarpic toma	ato fruits can be produced by-	Q.110		owing of leaves of a pulse
	(1) Removing and	froecium of flowers before		crop might cause de	ecrease in the yield. Which
	pollen grains ar				most beneficial to obtain
		ants with low concentrations		maximum seed yield	
	of gibberellic ac			(1) Frequent irrigation	*
		nts from vernalized seeds		` /	the plants with cytokinins mall dose of nitrogenous
	(4) Treating the acetate	plants with phenylmercuric		fertilizer	man dosc of introgenous
					yellow leaves and spraying
Q.105	How does pruning	help in making the hedge			green leaves with 2,4,5-
	dense?			trichlorophenox	-
	· /	differentiation of new shoots			iron and magnesium to sis of chlorophyll
	from the rootstoo			F	· · · · · · · · · · · · · · · · · · ·
	· · ·	buds from apical dominance grows faster after pruning	Q.111	In which of the fol	llowing fruits is the edible
	(4) It released woun	• •	-	part the aril?	-
	(+) it released would	M HOTHIOHOS		(1) Custard apple	(2) Pomegranate
				(3) Orange	(4) Litchi

Q.112	Which one of the following amino-acids was not found to be synthesized in Miller's experiment?		Q.121	Which one of the following is not included under in-situ conservation?	
	<ul><li>(1) Glycine</li><li>(3) Glutamic acid</li></ul>	<ul><li>(2) Aspartic acid</li><li>(4) Alanine</li></ul>		<ul><li>(1) Sanctuary</li><li>(3) Biosphere reserve</li></ul>	(2) Botanical garden e (4) National park
Q.113	Crop plants grown in monoculture are- (1) Low in yield (2) Free from intraspecific competition		Q.122	Which antibiotic inhibits interaction between tRNA and mRNA during bacterial protein synthesis?	
	(3) Characterised by	_		(1) Erythromycin	(2) Neomycin
	(4) Highly prone to	-		(3) Streptomycin	(4) Tetracycline
Q.114	Montreal Protocol which calls for appropriate		Q.123		nnism is the result of-
		ne ozone layer from human		(1) Mutations and linkages	
	activities was passed	-		(2) Cytoplasmic effe	
	(1) 1986	(2) 1987			nges and sexual dimorphism
	(3) 1988	(4) 1985		(4) Genotype and en	vironment interactions
Q.115	•	onential population growth is-	Q.124	_	pollution does not contain-
	(1) dt/dN = rN	(2) dN/rN = dt		(1) Ozone	
	(3) rN/dN = dt	(4) dN/dt = rN		<ul><li>(2) Nitrogen dioxide</li><li>(3) Carbon dioxide</li></ul>	
Q.116	Which one of the	following is not used for		(4) PAN (peroxy acy	d nitrata)
Q.110	construction of ecol-				,
	(1) Dry weight		Q.125	Moss peat is used as a packing material for sending flowers and live plants to distant places because-	
	<ul><li>(2) Number of individuals</li><li>(3) Rate of energy flow</li></ul>				
		low		(1) It is easily availal	hle
	(4) Fresh weight			(2) It is hygroscopic	oic .
Q.117	Niche overlap indicates-			(3) It reduces transpi	ration
Q.117	(1) Active cooperation between two species			(4) It serves as a disi	
		rasites on the same host		(1) -1 2 -1 1 2 3 3 3 3 3 3 3 3	
		r more resources between the	Q.126	A common structura	l feature of vessel elements
	two species	i more resources between the	-	and sieve tube eleme	nts is-
	(4) Mutualism betw	een two species		(1) Thick secondary	
				(2) Pores on lateral v	vall
Q.118	In photosystem-I, th	e first electron acceptor is-		(3) Presence of p-pro	
	(1) Ferredoxin			(4) Enucleate conditi	on
	(2) Cytochrome		Q.127	The thalloid bod	y of a slime mould
	(3) Plastocyanin		<b>C</b>	(Myxomycetes) is kr	
	(4) An iron sulphur	protein		<ul><li>(1) Protonema</li><li>(3) Fruiting body</li></ul>	<ul><li>(2) Plasmodium</li><li>(4) Mycelium</li></ul>
Q.119		at low temperature under	0.130		•
		break its dormancy is called -	Q.128		inheritance do you expect ence among the offspring?
	(1) Sclarification	(2)Vernalization		(1) Autosomal	(2) Cytoplasmic
	(3) Chelation	(4) Stratification		(3) Y-linked	(4) X-linked
Q.120		following is the most suitable of Drosophila melanogaster?	Q.129	• • •	ration is seen in sweet pea?
	medium for culture of <i>Drosophila melanogaster</i> ? (1) Moist bread (2) Agar-agar			(1) Basal	(2)Axile
	(3) Ripe banana	(4) cow dung		(3) Free central	(4) Marginal
	· / • · · · · ·	· ,			

Q.130		nreads protruding at the end	Q.138	Bowman's glands ar	
	of a young cob of m			(1) Olfactory epithe	lium
	(1) Anthers	(2) Styles		(2) External auditor	
	(3) Ovaries	(4) Hairs		(3)Cortical nephron	s only
				(4) Juxtamedullary	nephrons
Q.131	Conifers differ from	grasses in the-			
	(1) Production of sec	eds from ovules	Q.139	The bacterium (C	lostridium botulinum) that
	(2) Lack of xylem tr	acheids		causes botulism is-	
	(3) Absence of polle	n tubes		(1) A facultative and	aerobe
	(4) Formation of end	losperm before fertilization		(2) An obligate anac	erobe
				(3) A facultative aer	robe
Q.132		nt kinds of gametes will be		(4) An obligate aero	bbe
		lant having the genotype			
	AABbCC?		Q.140	Which one of the	following is the correctly
	(1) Three	(2) Four			n endangered animal and a
	(3) Nine	(4) Two		National Park?	
				(1) Lion	<ul> <li>Corbett National Park</li> </ul>
Q.133	In Maize, hybrid vig	· · · · · · · · · · · · · · · · · · ·		(2) Rhinoceros	<ul> <li>Kaziranga National Park</li> </ul>
		protoplast with DNA		(3) Wild Ass	<ul> <li>Dudhwa National Park</li> </ul>
	· ·	inbred parental lines		(4) Great Indian	<ul> <li>Keoladeo National Park</li> </ul>
	plants	s from the most productive		Bustard	
	(4) Inducing mutation	ons	Q.141		ng unpredictable moods,
					on, quarrelsome behaviour
Q.134		owing statements regarding			thers is suffering from-
	mitochondrial memb			(1) Schizophrenia	amality Disamdan (DDD)
	(1) The outer member of molecules	rane is permeable to all kinds		(3) Mood disorders	onality Disorder (BPD)
		f the electron transfer chain		` /	lama
	are embedded in	f the electron transfer chain in the outer membrane		(4) Addictive disord	ICIS
	forming a series	_	Q.142	Sulphur is an impogrowth and product	ortant nutrient for optimum ivity in-
	(4) The outer member	rane resembles a sieve		(1) Pulse crops	(2) Cereals
				(3) Fibre crops	(4) Oilseed crops
Q.135		nce, in protein synthesis is			
	decided by the seque		Q.143		morphic flowers, bicarpellary
	(1) tRNA	(2) mRNA			septa, and fruit a capsule or
	(3) cDNA	(4) rRNA		berry, are characteris	
				(1) Asteraceae	(2) Brassicaceae
Q.136		olecules could maximally be		(3) Solanaceae	(4) Liliaceae
		molecule of glucose, if the of one mole of glucose to			
		ds 686 kcal and the useful	Q.144	In a moss the sporo	
	chemical energy available in the high energy			(1) is partially parasitic on the gametophyte	
		ne mole of ATP is 12 kcal?  (2) Thirty		(2) produces game gametophyte	etes that given rise to the
	(3) Fifty-seven	(4) One		gametophyte	spore produced from the
Q.137	An organic substant essential for its activ	ce bound to an enzyme and rity is called -		(4) Manufactures for the gametophyt	ood for itself, as well as for
	(1) Coenzyme	(2) Holoenzyme			
	(3) Apoenzyme	(4) isoenzyme			

- Q.145 Curing of tea leaves is brought about by the activity of-
  - (1) Bacteria
- (2) Mycorrhiza
- (3) Viruses
- (4) Fungi
- Q.146 People living at sea level have around 5 million RBC per cubic millimeter of their blood whereas those living at an altitude of 5400 metres have around 8 million. This is because at high altitude-
  - (1) People get pollution-free air to breathe and more oxygen is available
  - (2) Atmospheric O<sub>2</sub> level is less and hence more RBCs are needed to absorb the required amount of O<sub>2</sub> to survive
  - (3) There is more UV radiation which enhances RBC production
  - (4) People eat more nutritive food, therefore more RBCs are formed
- Q.147 An important evidence in favour of organic evolution is the occurrence of-
  - (1) Homologous and vestigial organs
  - (2) Analogous and vestigial organs
  - (3) Homologous organs only
  - (4) Homologous and analogous organs
- Q.148 Which one of the following is not a living fossil-
  - (1) King crab
- (2) Sphenodon
- (3) Archaeopteryx
- (4) Peripatus
- Q.150 A major breakthrough in the studies of cells came with the development of electron microscope. This is because-
  - (1) The resolution power of the electron microscope is much higher than that of the light microscope
  - (2) The resolving power of the electron microscope is 200-350 nm as compared to 0.1-0.2 nm for the light microscope
  - (3) Electron beam can pass through thick materials, whereas light microscopy requires thin sections
  - (4) The electron microscope is more powerful than the light microscope as it uses a beam of electrons which has wavelength much longer than that of photons
- Q.151 Which one of the following is a matching set of phylum and its three examples?
  - (1) Cnidaria Bonellia, Physalia, Aurelia
  - (2) Platyhelminthes-Planaria, Schistosoma, Enterobius
  - (3) Mollusca-Loligo, Teredo, Octopus
  - (4) Porifera-Spongilla, Euplectella, Pennatula

- Q.152 Metameric segmentation is the characteristic of-
  - (1) Platyhelminthes and Arthropoda
  - (2) Echinodermata and Annelida
  - (3) Annelida and Arthropoda
  - (4) Mollusca and Chordata
- Q.153 Which of the following pairs of an animal and a plant represents endangered organisms in India-
  - (1) Bentinckia nicobarica and Red Panda
  - (2) Tamarind and Rhesus monkey
  - (3) Cinchona and Leopard
  - (4) Banyan and Black buck
- Q.154 Jurassic period of the Mesozoic era characterized by-
  - (1) Gymnosperms are dominant plants and first birds appear
    - (2) Radiation of reptiles and origin of mammal like reptiles
    - (3) Dinosaurs become extinct and angiosperms appear
    - (4) Flowering plants and first dinosaurs appear
- Q.155 What is common about Trypanosoma, Noctiluca, Monocystis and Giardia-
  - (1) These are all unicellular protists
  - (2) They have flagella
  - (3) They produce spores
  - (4) These are all parasites
- Q.156 Which of the following statements regarding cilia is not correct -
  - (1) The organized beating of cilia is controlled by fluxes of Ca<sup>2+</sup> across the membrane
  - (2) Cilia are hair-like cellular appendages
  - (3) Microtubules of cilia are composed of tubulin
  - (4) Cilin contain an outer ring of nine doublet microtubules surrounding two single microtubules
- Q.157 Two microbes found to be very useful in genetic engineering are-
  - (1) Escherichia coli and Agrobacterium tumefaciens
  - (2) Vibrio cholerae and a tailed bacteriophage
  - (3) Diplococcus sp.and Pseudomonas sp.
  - (4) Crown gall bacterium and Caenorhabditis elegans

Q.158	Which of the following environmental conditions are essential for optimum growth of		The contractile protein of skeletal muscle involving ATPase activity is-	
	Mucor on a piece of bread?		(1) Tropomyosin (2) Myosin	
	A. Temperature of about 25°C		(3) α-Actin (4) Troponin	
	B. Temperature of about 5°C			
	<ul><li>C. Relative humidity of about 5%</li><li>D. Relative humidity of about 95%</li></ul>	Q.167	Which one of the following is not a second messenger in hormone action?	
	E. A shady place		(1) cGMP (2) Calcium	
	F. A brightly illuminated place		(3) Sodium (4) cAMP	
	Choose the answer from the following options			
	(1) A, C and E only (2) A, D and E only (3) B, D and E only (4) B, C and F only	Q.168	In Mendel's experiments with garden pea, round seed shape (RR) was dominant over wrinkled seeds (rr), yellow cotyledon (YY) was dominant	
Q.159	Evolutionary history of an organism is known as-		over green cotyledon (yy). What are the	
	(1) Phylogeny (2) Ancestry		expected phenotypes in the F <sub>2</sub> generation of the	
	(3) Paleontology (4) Ontogeny		cross RRYY × rryy ?	
Q.160	Which of the following is considered a hot-spot		(1) Only round seeds with green cotyledons	
Q.100	of biodiversity in India?		(2) Only wrinkled seeds with yellow cotyledons	
	(1) Western Ghats		(3) Only wrinkled seeds with green cotyledons	
	(2) Indo-Gangetic Plain		(4) Round seeds with yellow cotyledons, and wrinkled seeds with yellow cotyledons	
	(3) Eastern Ghats		willikied seeds with yellow cotyledolis	
	(4) Aravalli Hills	Q.169	One gene-one enzyme hypothesis was postulated by-	
Q.161	During photorespiration the oxygen consuming		(1) R. Franklin (2) Hershey and Chase	
	reaction (s) occur in- (1) Stroma of chloroplasts and mitochondria		(3) A.Garrod (4) Beadle and Tatum	
	(2) Stroma of chloroplasts and peroxisomes		()	
	(3) Grana of chloroplasts and peroxisomes	Q.170	One turn of the helix in a B-form DNA is	
	(4) Stroma of chloroplasts		approximately-	
	•		(1) 20 nm (2) 0.34 nm	
Q.162	Which one of the following is an example of polygenic inheritance?		(3) 3.4 nm (4) 2 nm	
	(1) Flower colour in Mirabilis jalapa	Q.171	Test cross involves-	
	<ul><li>(2) Production of male honey bee</li><li>(3) Pod shape in garden pea</li></ul>		(1) Crossing between two genotypes with recessive trait	
	(4) Skin colour in humans		(2) Crossing between two F <sub>1</sub> hybrids	
Q.163	Which one of the following does not act as a neurotransmitter?		(3) Crossing the $F_1$ hybrid with a double recessive genotype	
	(1) Acetylcholine (2) Epinephrine		(4) Crossing between two genotypes with	
	(3) Norepinephrine (4) Cortisone		dominant trait	
Q.164	Sertoli cells are regulated by the pituitary	Q.172	Antiparallel strands of a DNA molecule means	
Q.10 <del>4</del>	hormone known as-	Q.172	that-	
	(1) FSH (2) GH		(1) One strand turns anti-clockwise	
	(3) Prolactin (4) LH		(2) The phosphate groups of two DNA stands, at their ends, share the same position	
Q.165	A steroid hormone which regulates glucose metabolism is-		(3) The phosphate groups at the start of two DNA strands are in opposite position (pole)	
	(1) Cortisol		(4) One strand turns clockwise	
	(2) Corticosterone		· · · · · · · · · · · · · · · · · · ·	
	(3) 11-deoxycorticosterone			
	(4) Cortisone			

(1) Fat body with muscles (2) Integument with nuscles (3) Bones with bones (4) Bones with bones (4) Bones with bones (4) Bones with bones (4) Ilippurin (2) Myoglobin (3) Histamine (4) Heamoglobin (2) One-half colourblind woman marries a normal visioned man, their sons will be (1) All normal visioned man, their sons will be (2) One-half colourblind and one-half normal (3) Three-fourths colourblind and one-half normal (4) All colourblind and one-half normal (4) All colourblind and one-half normal (4) Fertilization of an XX egg by a normal Y-bearing sperm (2) Loss of half of the short arm of chromosome 5 (3) Loss of half of the short arm of chromosome 5 (4) Trisomy of 21" chromosome 5 (3) Loss of half of the short arm of chromosome 5 (4) Synthesizes DNA  Q.177 Restriction endonuclease (1) Cuts the DNA molecule at specific sites (3) Restricts the synthesis of DNA inside the nucleus (4) Synthesizes DNA  Q.180 Antibodies in our body are complex (1) Lipoproteins (2) Steroids (3) Prostaglandins (4) Glogoproteins (2) Steroids (3) Prostaglandins (4) Glogoproteins (2) Steroids (3) Prostaglandins (4) Glogoproteins (3) Control Board for the discharge of industrial and municipal waste waters into natural surface waters, is - (1) Cartotlic when plenty of water is available (2) Uricotelic when plenty of water is available (3) Uricotelic when plenty of wa	Q.173	Areolar connective tiss	sue joins-	Q.181	Which of the follow	ring is an accumulation and
(2) Integument with muscles (3) Bones with bones (4) Bones with bones (4) Bones with bones (4) Heamoglobin (3) Histamine (4) Heamoglobin (1) All normal visioned man, their sons will be (1) All normal visioned (2) One-half colourblind and one-half normal (3) Three-fourths colourblind and one-fourth normal (4) All colourblind (2) One-half colourblind and one-fourth normal (4) All colourblind (3) Three-fourths colourblind and one-fourth normal (4) All colourblind (4) I Fertilization of an XX egg by a normal Y-bearing sperm (2) Loss of half of the short arm of chromosome 5 (3) Loss of half of the long arm of chromosome 5 (4) Trisomy of 21" chromosome (4) Trisomy of 21" chromosome (5) Ausclass of half of the short arm of chromosome 5 (1) Cuts the DNA molecule at specific sites (3) Restricts the synthesis of DNA inside the nucleus (4) Synthesizes DNA (1) Lipoproteins (2) Steroids (3) Prostaglandins (4) Glycoproteins (3) Prostaglandins (4) Glycoproteins (4) Synthesizes DNA (1) Lipoproteins (2) Steroids (3) Prostaglandins (4) Glycoproteins (3) Prostaglandins (4) Glycoproteins (4) Synthesizes DNA (1) Lipoproteins (2) Steroids (3) Prostaglandins (4) Glycoproteins (3) Worm (4) Virus  Q.180 Earthworms are- (1) Cute-lic when plenty of water is available (2) Uricotelic when plenty of water is available (3) Uricotelic when plenty of water is available (4) Ammonotelic when plenty of water is available (2) Uricotelic when plenty of water is available (3) Uricotelic when plenty of water is available (2) Uricotelic when plenty of water is available (3) Uricotelic when plenty of water is available (4) Ammonotelic when plenty of water is available (3) Uricotelic when plenty of water is available (4) Ammonotelic when plenty of water is available (4) Ammonotelic when plen		· ·				
(3) Bones with muscles (4) Bones with bones (3) Hornero intuitary lobe (3) Histamine (4) Heamoglobin (3) Histamine (4) Heamoglobin (3) Histamine (4) Heamoglobin (2) One-half colourblind woman marries a normal visioned man, their sons will be- (1) All normal visioned (2) One-half colourblind and one-half normal (3) Three-fourths colourblind and one-half normal (4) All colourblind (4) Histogram (5) FSH (6) Fertilization of an XX egg by a normal (7) Hor residual air in lungs slightly decreases the efficiency of respiration in mammals (7) Hor residual air in lungs slightly decreases the efficiency of respiration in mammals (8) The presence of non-respiratory air sacs, increases the efficiency of respiration in birds (8) In insects, circulating body fluids serve to distribute oxygen to tissues (9) For presence of non-respiratory air sacs, increases the efficiency of respiration in birds (3) In insects, circulating body fluids serve to distribute oxygen to tissues (4) The principle of countercurrent flow facilitates efficient respiration in gills of fishes (3) Restricts the synthesis of DNA inside the nucleus (4) Synthesizes DNA (1) Lipoproteins (2) Cust the DNA molecule at specific sites (3) Restricts the synthesis of DNA inside the nucleus (4) Synthesizes DNA (1) Lipoproteins (2) Steroids (3) Prostaglandins (4) Glucoproteins (3) Hirudinaria (4) Glucagon (4) Yrus (1) ACTH (2) Insulin (3) Adrenalin (4) Glucagon (4) Yrus (1) Bacterium (2) Prion (3) Worm (4) Vrus (1) Bacterium (2) Prion (3) Worm (4) Vrus (1) Bacterium (2) Prion (3) Worm (4) Vrus Suterium (2) Prioteins (3) Mass Ilou involving a carrier and ATP (4) Cytoplasmic streaming (2) Cicnoplana and Beroe (3) Locaplana and Beroe (3) Aurelia and Paramecium		· /			(1) Posterior pituitar	y lobe
Q.174 Mast cells secrete- (1) Hippurin (2) Myoglobin (3) Histamine (4) Heamoglobin (2) One-half colourblind woman marries a normal visioned man, their sons will be- (1) All normal visioned (2) One-half colourblind and one-half normal (3) Three-fourths colourblind and one-fourth normal (4) All colourblind (4) Fertilization of an XX cgg by a normal Y-bearing sperm (2) Loss of half of the short arm of chromosome 5 (3) Loss of half of the short arm of chromosome 5 (3) Loss of half of the short arm of chromosome 5 (4) Trisomy of 21st chromosome (1) Cuts the DNA molecule randomly (2) Cuts the DNA molecule as specific sites (3) Restricts the synthesis of DNA inside the nucleus (4) Synthesizes DNA (1) Lipoproteins (2) Steroids (3) Prostaglandins (4) Glycoproteins (3) Prostaglandins (4) Glycoproteins (3) Prostaglandins (4) Glycoproteins (1) Lipoproteins (2) Steroids (3) Prostaglandins (4) Glycoproteins (3) Prostaglandins (4) Glycoproteins (1) Licutedic when plenty of water is available (2) Uricotelic when plenty of water is available (3) Uricotelic under conditions of water sa available (3) Uricotelic under conditions of water is available (3) Uricotelic under conditions o		• /			(2) Intermediate lobe	e of the pituitary
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(2) Loss of half of the short arm of chromosome 5 (3) Loss of half of the long arm of chromosome 5 (4) Trisomy of 21st chromosome  (4) Trisomy of 21st chromosome  (5) Q.184 Which one of the following has an open circulatory system?  (6) Cuts the DNA molecule randomly (7) Cuts the DNA molecule at specific sites (8) Restricts the synthesis of DNA inside the nucleus (9) Synthesizes DNA  (1) Lipoproteins (2) Steroids (3) Prostaglandins (4) Glycoproteins  (2) Steroids (3) Worm (4) Glucagon  (3) Worm (4) Virus  (3) Worm (4) Virus  (2) Priplaneta (3) Hirudinaria (4) Octopus  (5) Adrenalin (6) Glucagon  (7) Limit of BOD prescribed by Central Pollution Control Board for the discharge of industrial and municipal waste waters into natural surface waters, is - (1) < 3.0 ppm (3) < 100 ppm (4) < 30 ppm (2) < 10 ppm (3) < 100 ppm (4) < 30 ppm (2) Priplaneta (3) Hirudinaria (4) Octopus  (3) Adrenalin (4) Glucagon  (4) Glucagon  (3) Worm (4) Virus  (3) Worm (4) Virus  (2) Priplaneta (3) Hirudinaria (4) Octopus  (3) Adrenalin (4) Glucagon  (1) Bacterium (2) Prion (3) Worm (4) Virus  (2) Priproteins (3) Worm (4) Virus  (2) Priproteins (3) Worm (3) Worm (4) Virus  (2) Priproteins (3) Worm (3) Worm (4) Virus  (2) Priproteins (3) Mass flow involving a carrier and ATP (4) Cytoplasmic streaming  (4) Cytoplasmic streaming  (4) Cytoplasmic streaming  (4) Cytoplasmic streaming  (5) Extraction of organic solutes in sieve tube members is supported by- (1) Root pressure and transpiration pull (2) Priproteins (3) Mass flow involving a carrier and ATP (4) Cytoplasmic streaming  (5) Extraction of blood vessels, increased oxygen consumption an glucogenesis? (1) Bacterium (2) Priproteins (3) Worm (3) Worm (4) Virus		the- (1) Fertilization of an XX egg by a normal				
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Q.184 Which one of the following has an open circulatory system?  Q.177 Restriction endonuclease - (1) Cuts the DNA molecule randomly (2) Cuts the DNA molecule at specific sites (3) Restricts the synthesis of DNA inside the nucleus (4) Synthesizes DNA  Q.185 Which hormone causes dilation of blood vessels, increased oxygen consumption an glucogenesis? (1) Antibodies in our body are complex- (1) Lipoproteins (2) Steroids (3) Prostaglandins (4) Glycoproteins  Q.186 The causative agent of mad-cow disease is a- (1) Bacterium (2) Prion (3) Worm (4) Virus  Q.187 The translocation of organic solutes in sieve tube members is supported by- (1) Control Board for the discharge of industrial and municipal waste waters into natural surface waters, is - (1) < 3.0 ppm (2) <10 ppm (3) < 100 ppm (4) < 30 ppm (2) <10 ppm (3) Control Board for the discharge of industrial and municipal waste waters into natural surface waters, is - (1) Cuts the DNA molecule randomly (2) Root pressure and transpiration pull (2) P-proteins (3) Mass flow involving a carrier and ATP (4) Cytoplasmic streaming (2) Piroteins (3) Mass flow involving a carrier and ATP (4) Cytoplasmic streaming (4) Cytoplasmic streaming (5) Hirudinaria (4) Octopus (5) Hirudinaria (4) Octopus (6) Hirudinaria (4) Octopus (6) Hirudinaria (4) Octopus (6) Hirudinaria (7) Hirudinaria (8) Hirudinaria (9) Hirudinaria (9) Hirudinaria (1) LACTH (1) ACTH (2) Insulin (3) Adrenalin (4) Glucagon (1) Bacterium (2) Prion (3) Worm (4) Virus (1) Root pressure and transpiration pull (2) P-proteins (3) Mass flow involving a carrier and ATP (4) Cytoplasmic streaming (5) Hirudinaria (6) Octopus (6) Hirudinaria (7) Prion (8) Adrenalin (9) Glucagon (1) Bacterium (1) Bacterium (2) Prion (3) Worm (4) Virus (4) Virus (5) Hirudinaria (4) Octopus (6) Glucagon (7) Hirudinaria (8) Hirudinaria (9) Hirudinaria (1) Actrolling (1) Bacterium (2) Prion (3) Worm (4) Virus (5) Prion (6) Hirudinaria (7) Glucagon (7) Hirudinaria (8) Hirudinaria (9) Hirudinaria (1) Actrolling (1) Root pressure and transpiration pull		` '				ient respiration in gills of
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(3) Aurelia and Paramecium		(4) Ammonotelic when	plenty of water is available.		` '	
					• •	
(4) Hydra and starfish					(4) Hydra and starfis	

Q.189	The arrangement of embryo sac in the di	of the nuclei in a normal	Q.196	In which one of the following sets of animals do all the four give birth to young ones?
	(1) 2 + 4 + 2	(2) 3 + 2 + 3		(1) Lion, Bat, Whale, Ostrich
	(3) 2 + 3 + 3	(4) 3 + 3 + 2		(2) Platypus, Penguin, Bat, Hippopotamus
	(0) = 0	( )		(3) Shrew, Bat, Cat, Kiwi
Q.190	An enzyme that cabarley seeds is-	an stimulate germination of		(4) Kangaroo, Hedgehog, Dolphin, Loris
	(1) $\alpha$ - amylase	(2) Lipase	Q.197	Sickle cell anemia has not been eliminated from
	(3) Protease	(4) Invertase		the African population because-
	(5) 11000000	(1) 111, 61,015		(1) It is controlled by recessive genes
Q.191	In a cereal grain the	single cotyledon of embryo		(2) It is not a fatal disease
<b>C</b>	is represented by -			(3) It provides immunity against malaria
	(1) Coleorhiza	(2) Scutellum		(4) It is controlled by dominant genes
	(3) Prophyll	(4) Coleoptile		
Q.192	The majority of earl	oon dioxide produced by our	Q.198	Two common characters found in centipede, cockroach, and crab are-
Q.192	body cells is transpo			(1) Compound eyes and anal cerci
	(1) Dissolved in the	_		(2) Jointed legs and chitinous exoskeleton
	(2) As bicarbonates			(3) Green gland and tracheae
	(3) As carbonates			(4) Book lungs and antennae
	(4) Attached to hemo	oglobin		
			Q.199	Both sickle cell anemia and Huntington's chorea
Q.193	Triticale, the first	man-made cereal crop, has		are-
	been obtained by cro	ossing wheat with		(1) Bacteria-related diseases
	(1) Rye	(2) Pearl millet		(2) Congenital disorders
	(3) Sugarcane	(4) Barley		(3) Pollutant-induced disorders
				(4) Virus-related diseases
Q.194		rus-free plants through tissue		
	culture the best meth		Q.200	Angiotensinogen is a protein produced and secreted by-
	(1) Protoplast culture	e		(1) Macula densa cells
	(2) Embryo rescue			(2) Endothelial cells (cells lining the blood vessels)
	(3) Anther culture			(3) Liver cells
	(4) Meristem culture	,		(4) Juxtaglomerular (JG) cells
O 105	UIV that agus as AIF	OS first starts dostroving		(4) Juxtugionicidiai (30) cens
Q.195	(1) B-lymphocytes	OS, first starts destroying (2) Leucocytes		
	(3) Thrombocytes	(4) Helper T-lymphocytes		
	(3) Thrombocytes	(4) Tresper 1-symphocytes		