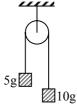
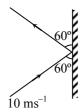
## **AIPMT - 2000**

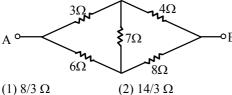
0.1 Two masses as shown are suspended from a massless pulley. Calculate the acceleration of the system when masses are left free:



- (1) 2g/3
- (2) g/3
- (3) g/9
- (4) g/7
- **Q.2** A body of mass 3 kg hits a wall at an angle of 60° & returns at the same angle. The impact time was 0.2 s. Calculate the force exerted on the wall:



- (1)  $150\sqrt{3}$  N
- (2)  $50\sqrt{3}$  N
- (3) 100 N
- (4)  $75\sqrt{3}$  N
- **Q.3** A mass of 1kg is thrown up with a velocity of 100 m/s. After 5 seconds, it explodes into two parts. One part of mass 400 g comes down with a velocity 25 m/s Calculate the velocity of other part:
  - (1) 40 m/s upward
- (2) 40 m/s downward
- (3) 100 m/s upward
- (4) 60 m/s downward
- **Q.4** Calculate the net resistance of the circuit between A and B:



- (3)  $16/3 \Omega$
- (4)  $22/3 \Omega$
- Q.5 A capacitor is charged with a battery and energy stored is U. After disconnecting battery another capacitor of same capacity is connected in parallel with it. Then energy stored in each capacitor is:
  - (1) U/2
- (2) U/4
- (3) 4 U
- (4) 2 U

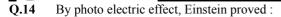
- 0.6 Two projectiles of same mass and with same velocity are thrown at an angle 60° & 30° with the horizontal, then which quantity will remain same:
  - (1) Time of flight
  - (2) Horizontal range of projectile
  - (3) Max height acquired
  - (4) All of them
- **Q.7** A mass is performing vertical circular motion (see figure).If The average velocity of the particle is increased, then at which point the string will break:



- (1) A
- (2) B
- (3) C
- (4) D
- 0.8 For the given reaction, the particle X is:

$$6^{C^{11}} \rightarrow 5^{B^{11}} + \beta^+ + X$$

- (1) Neutron
- (2) Anti neutrino
- (3) Neutrino
- (4) Proton
- Q.9 A man is slipping on a frictionless inclined plane & a bag falls down from the same height. Then the speed of both is related as:
  - (1)  $V_B > V_m$
- (2)  $V_B < V_m$
- (3)  $V_B = V_m$  (4)  $V_B$  and  $V_m$  can't related
- **O.10** A body of weight 72 N moves from the surface of earth at a height half of the radius of the earth, then gravitational force exerted on it will be:
  - (1) 36 N (2) 32 N (3) 144 N (4) 50 N
- Rainbow is formed due to: Q.11
  - (1) Scattering & refraction
  - (2) Total internal reflection & dispersion
  - (3) Reflection only
  - (4) Diffraction and dispersion
- Q.12 Gravitational force is required for:
  - (1) Stirring of liquid (2) Convection
  - (3) Conduction
- (4) Radiation
- Q.13 For a plane convex lenx ( $\mu = 1.5$ ) has radius of curvature 10 cm. It is silvered on its plane surface. Find focal length after silvering:
  - (1) 10 cm
- (2) 20 cm
- (3) 15 cm
- (4) 25 cm



- (2) KE =  $\frac{1}{2}$  mv<sup>2</sup>
- $(4) E = \frac{-Rhc^2}{r^2}$
- Q.15 Maximum frequency of emission is obtained for the transition:
  - (1) n = 2 to n = 1
- (2) n = 6 to n = 2
- (3) n = 1 to n = 2
- (4) n = 2 to n = 6
- Q.16 For a hollow cylinder & a solid cylinder rolling without slipping on an inclined plane, then which of these reaches earlier on the ground:
  - (1) Solid cylinder
  - (2) Hollow cylinder
  - (3) Both simultaneously
  - (4) Can't say anything
- Q.17 To find out degree of freedom, the correct expression is:
  - (1)  $f = \frac{2}{\gamma 1}$  (2)  $f = \frac{\gamma + 1}{2}$
  - (3)  $f = \frac{2}{\gamma + 1}$  (4)  $f = \frac{1}{\gamma + 1}$
- 0.18 The frequency order of for  $\gamma$  - rays (b), X – rays (a), UV - rays(c):
  - (1) b > a > c
- (2) a > b > c
- (3) c > b > a
- (4) a > c > b
- Q.19 Electric field at centre O of semicircle of radius 'a' having linear charge density  $\lambda$  given is given by

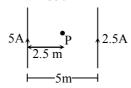


- $(1) \frac{2\lambda}{\epsilon_0 a} \qquad (2) \frac{\lambda \pi}{\epsilon_0 a}$
- $(3) \frac{\lambda}{2\pi \in_0 a} \qquad (4) \frac{\lambda}{\pi \in_0 a}$
- Q.20 The width of river is 1 km. The velocity of boat is 5 km/hr. The boat covered the width of river with shortest will possible path in 15 min. Then the velocity of river stream is:
  - (1) 3 km/hr
- (2) 4 km/hr
- (3)  $\sqrt{29}$  km/hr (4)  $\sqrt{41}$  km/hr
- Q.21 Motion of a particle is given by equation  $S = (3t^3 + 7t^2 + 14t + 8)m$ , The value of acceleration of the particle at t = 1 sec. is :
  - (1)  $10 \text{ m/s}^2$
- (2)  $32 \text{ m/s}^2$
- $(3) 23 \text{ m/s}^2$
- (4)  $16 \text{ m/s}^2$

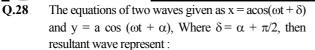
- A charge Q is situated at the corner of a cube, the electric flux passed through all the six faces of the cube is:
- $(1) \frac{Q}{6 \in \mathfrak{g}} \qquad \qquad (2) \frac{Q}{8 \in \mathfrak{g}}$

Q.22

- $(3) \frac{Q}{\epsilon} \qquad \qquad (4) \frac{Q}{2\epsilon}$
- 0.23For adjoining fig., The magnetic field at point, 'P' will be:



- $(3) \frac{\mu_0}{2\pi} \otimes \qquad \qquad (4) \frac{\mu_0}{2\pi} \odot$
- A charge having q/m equal to 10<sup>8</sup> c/kg and with 0.24 velocity  $3 \times 10^5$  m/s enters into a uniform magnetic field B = 0.3 tesla at an angle 30° with direction of field. Then radius of curvature will be:
  - (1) 0.01 cm
- (2) 0.5 cm
- (3) 1 cm
- (4) 2 cm
- Q.25 The value of quality factor is:
  - $(1) \frac{\omega L}{R}$
- $(2) \frac{\omega}{RC}$
- (3)  $\sqrt{LC}$
- (4) L/R
- Two stationary sources each emitting waves of Q.26 wave length  $\lambda$ . An observer moves from one source to other with velocity u. Then number of beats heared by him:
  - $(1) \frac{2u}{\lambda} \qquad (2) \frac{u}{\lambda}$
  - (3)  $\sqrt{u\lambda}$
- $(4) \frac{u}{2}$
- Q.27 A string is cut into three parts, having fundamental frequencies  $n_1$ ,  $n_2$  and  $n_3$ respectively. Then original frequency 'n' related by the expression as:
  - (1)  $\frac{1}{n} = \frac{1}{n_1} + \frac{1}{n_2} + \frac{1}{n_3}$
  - (2)  $n = n_1 \times n_2 \times n_3$
  - (3)  $n = n_1 + n_2 + n_3$
  - (4)  $n = \frac{n_1 + n_2 + n_3}{3}$



- (1) a circle (c.w)
- (2) a circle (a.c.w)
- (3) an Ellipse (c.w)
- (4) an ellipse (a.c.w)
- Q.29 The relation between  $\lambda$  and  $T_{1/2}$  is :

 $(T_{1/2} = \text{half life}, \lambda \rightarrow \text{decay constant})$ 

(1) 
$$T_{1/2} = \frac{\ell n2}{\lambda}$$
 (2)  $T_{1/2} \ell n2 = \lambda$ 

(2) 
$$T_{1/2} \ell n 2 = \lambda$$

(3) 
$$T_{1/2} = \frac{1}{\lambda}$$

(3) 
$$T_{1/2} = \frac{1}{\lambda}$$
 (4)  $(\lambda + T_{1/2}) = \frac{\ln \ln n}{2}$ 

The ratio (W/Q) for a carnot – engine is  $\frac{1}{6}$ , Now Q.30 the temp. of sink is reduced by 62°C, then this

ratio becomes twice, therefore the initial temp. of the sink and source are respectively:

- (1) 33°C, 67°C
- (2) 37°C, 99°C
- (3) 67°C, 33°C
- (4) 97 K, 37 K
- Q.31 From the following diode circuit. Which diode in forward biased condition:

$$(3) \stackrel{-5V}{\bullet} \qquad \qquad \qquad -2V$$

0.32Given Truth table is correct for:

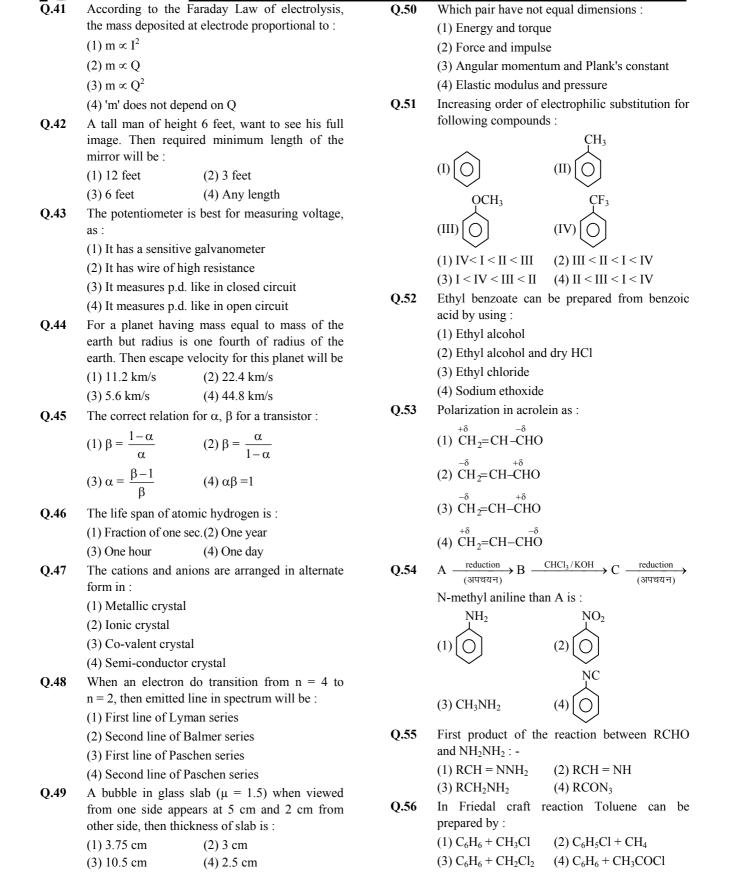
Α	В	Y
1	1	1
1	0	0
0	1	0
0	0	0

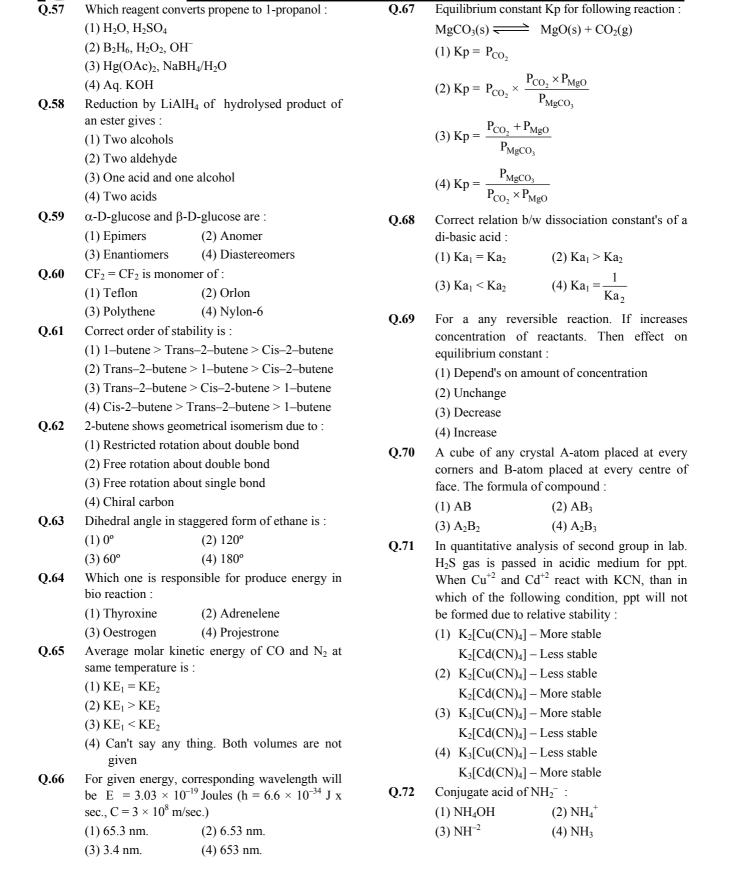
- (1) NAND
- (2) AND
- (3) NOR
- (4) OR
- Q.33 The bob of simple pendulum having length  $\ell$ , is displaced from mean position to an angular position  $\theta$  with respect to vertical. If it is released, then velocity of bob at lowest position:
  - (1)  $\sqrt{2g\ell(1-\cos\theta)}$
  - (2)  $\sqrt{2g\ell(1+\cos\theta)}$
  - (3)  $\sqrt{2g\ell\cos\theta}$
  - (4)  $\sqrt{2g\ell}$

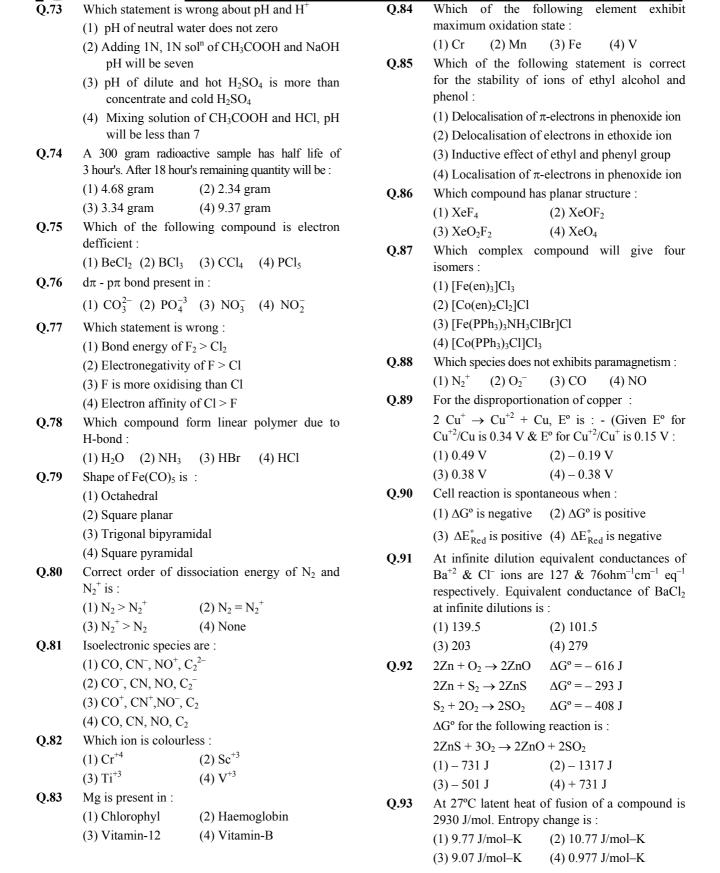
- If  $\vec{F} = (60 \hat{i} + 15 \hat{j} 3 \hat{k}) N$  and 0.34  $\vec{V} = (2\hat{i} - 4\hat{j} + 5\hat{k})$  m/s, then instantaneous power is:
  - (1) 195 watt (2) 45 watt
  - (3) 75 watt (4) 100 watt
- Q.35 For the adjoining diagram, a triangular lamina is shown the correct relation between I<sub>1</sub>, I<sub>2</sub> & I<sub>3</sub> is (I – moment of inertia)

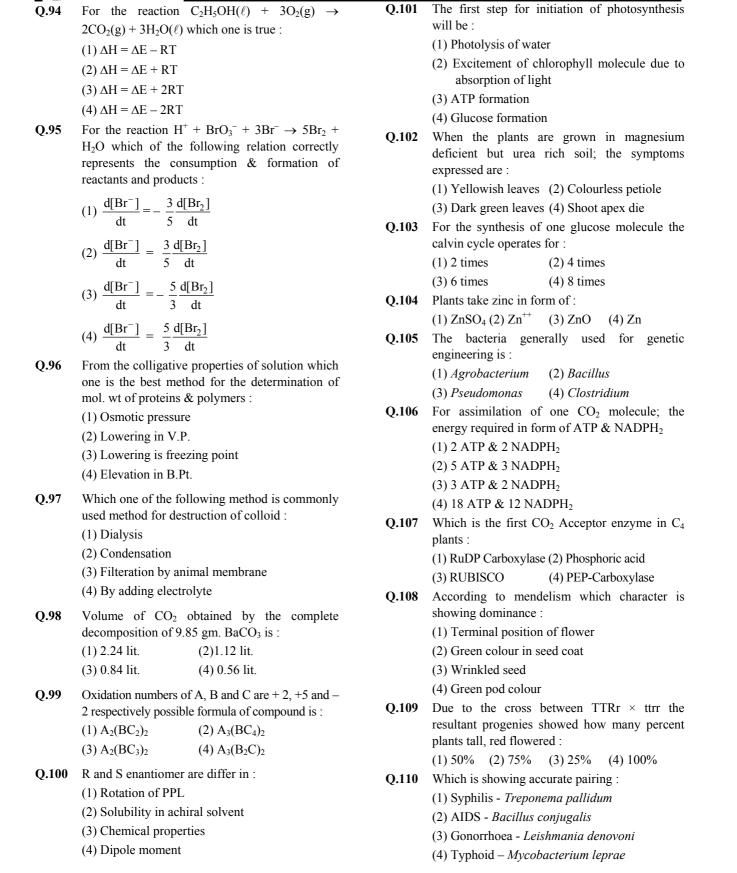


- (1)  $I_1 > I_2$
- (2)  $I_2 > I_1$
- (3)  $I_3 > I_1$
- $(4) I_3 > I_2$
- Q.36 Two spherical bob of masses M<sub>A</sub> and M<sub>B</sub> are hung vertically from two strings of length  $\ell_A$ and  $\ell_{\rm B}$  respectively. They are excuting SHM with frequency relation  $f_A = 2f_B$ , Then:
  - (1)  $\ell_{\rm A} = \frac{\ell_{\rm B}}{4}$
  - (2)  $\ell_{\rm A} = 4\ell_{\rm B}$
  - (3)  $\ell_A = 2 \ell_B \& M_A = 2M_B$
  - (4)  $\ell_A = \frac{\ell_B}{2} \& M_A = \frac{M_B}{2}$
- Q.37 Nuclear – Fission is best explained by :
  - (1) Liquid droplet theory
  - (2) Yukawa  $\pi$  meson theory
  - (3) Independent particle model of the nucleus
  - (4) Proton-proton cycle
- Q.38 Who evaluated the mass of electron indirectly with help of charge:
  - (1) Thomson
- (2) Millikan
- (3) Rutherford
- (4) Newton
- A car battery of emf 12 V and internal Q.39 resistance  $5 \times 10^{-2} \Omega$ , receives a current of 60 Å from external source, then terminal voltage of battery is:
  - (1) 12 V
- (2) 9 V
- (3) 15 v
- (4) 20 V
- Q.40 Two bulbs of (40 W, 200 V), and (100 W, 200 V). Then correct relation for their resistance:
  - $(1) R_{40} < R_{100}$
  - $(2) R_{40} > R_{100}$
  - (3)  $R_{40} = R_{100}$
  - (4) No relation can be predicted









Q.111	Which is expressing right appropriate pairing:	Q.122	What is true for mammalia:		
	(1) Brassicaceae - Sunflower		(1) Platypus is oviparous		
	(2) Malvaceae - Cotton		(2) Bats have feather		
	(3) Papilionaceae - Catechu		(3) Elephant is a ovo viviparous		
	(4) Liliaceae - Wheat		(4) Diaphragm is absent in them		
Q.112	Enzymes not found in:	Q.123	Which of the following character is not found in		
	(1) Fungi (2) Algae	<b>C</b>	all the chordates :		
	(3) Virus (4) Cyanobacteria		(1) Diaphragm (2) Coelom		
Q.113	Virus are living, because :		(3) Pharyngeal gill clifts (4) Dorsal nerve cord		
	(1) They multiply in host cells	Q.124	Hair are found in the inflorescences of <i>Zea mays</i>		
	(2) Carry anaerobic respiration		are the modification of:		
	(3) Carry metabolic activity		(1) Style (2) Stigma (3) Spathe (4) Filaments		
	(4) Cause infection	Q.125	Pneumatophores are found in :		
Q.114	If the apical bud has been removed then we observe:		(1) The vegetation which is found in marshy and saline lake		
	(1) More lateral branches		(2) The vegetation which found in saline soil		
	(2) More axillary buds		(3) Xerophytes		
	(3) Plant growth stops		(4) Epiphytes		
	(4) Flowering stops	Q.126	Concentration of urine depends upon which		
Q.115	Which hormone is responsible for fruit ripening:	Q.120	organ:		
	(1) Ethylene (2) Auxin		(1) Bowman's capsule		
	(3) Ethyl chloride (4) Cytokinin		(2) Length of Henle's loop		
Q.116	Eight nucleated embryosac is a:		(3) P.C.T.		
	(1) Only monosporic (2) Only bisporic		(4) Network of capillaries arising from		
	(3) Only tetra sporic (4) Any of the above		glomerulus		
Q.117	Which is the cause of damage to relative	Q.127	In which point pulmonary artery is different		
	biological effectiveness:		from pulmonary vein :		
	(1) High temperature (2) Pollution		(1) Its lumen is broad (2) Its wall is thick		
	(3) Radiation (4) Low temperature		(3) It have valves		
Q.118	Which is the reason for highest biomass in		(4) It does not possess endothelium		
	aquatic ecosystem:	Q.128	Reason, why hair loss is more in old age:		
	(1) Nano plankton, blue green algae, green algae		(1) Reduction of blood supply		
	(2) Sea grass, and slime molds		(2) Decrease in protein synthesis		
	(3) Benthonic and brown algae		(3) Low energy production		
O 110	(4) Diatoms		(4) Reduced storage of glycogen		
Q.119	Geocarpic fruits is : (1) Carrot (2) Radish	Q.129	What is the work of copper T:		
	(3) Ground nut (4) Turnip		(1) To inhibit ovulation		
Q.120	Endosperm is formed during the double		(2) To inhibit fertilization		
<b>C</b>	fertilization by :		(3) To inhibit implantation of blastocyst		
	(1) Two polar nuclei & one male gamete		(4) To inhibit gametogenesis		
	(2) One polar nuclei & one male gamete	Q.130	What is the work of progesteron which is		
	(3) Ovum and male gamete		present in oral contraceptive pills:		
	(4) Two polar nuclei & two male gametes		(1) To inhibit ovulation		
Q.121	By which action a seed coat becomes permeable to water:		(2) To check oogenesis		
	(1) Sclarification (2) Stratification		(3) To check entry of sperms in to cervix & to		
	(3) Vernalization (4) All of the above		make them inactive		
	(7) All of the above		(4) To check sexual behaviour		

Q.131	Conversion of an	nmonia to urea is done	Q.141	Depolarization of	axolema during nerve	
	byCycle:		-	conduction takes place because of:		
	(1) Ornithin cycle (2) Arginine cycle			(1) Equal amount of	'Na <sup>+</sup> & K <sup>+</sup> move out across	
	(3) Fumaric cycle (4) Citrulline cycle			axolema		
Q.132	What is name of joint between ribs and sternum:			(2) Na <sup>+</sup> move inside	and K <sup>+</sup> move more out side	
	(1) Cartilaginous joint (2) Angular joint			(3) More Na <sup>+</sup> outside	e	
	(3) Gliding joint (4) Fibrous joints			(4) None		
Q.133	Bone related with sk	ull is:	Q.142	Which statement is t	rue for WBC :	
	(1) Coracoid	(2) Arytenoid		(1) Non nucleated		
	(3) Pterygoid	(4) Atlas		(2) In deficiency car		
Q.134	Melatonin is secreted	d by:		(3) Manufactured in	•	
	(1) Pineal body	(2) Skin			ough blood capillaries	
	(3) Pituitary Gland	(4) Thyroid	Q.143	Which pair is correc		
Q.135	M S H is secreted by	· · ·		(1) Sweat = tempera	=	
	(1) Anteria lobe of p			(2) Saliva = sense of		
	(2) Middle lobe of p	•		(3) Sebum = sexual		
	(3) Posteria lobe of p		0.144	(4) Humerus = Hind	-	
	(4) Endostyle	•	Q.144	mammals:	etes odourous secretion in	
Q.136	•	ating boiled potato his food		(1) Bartholins	(2) Prostate	
_	contains the compon	-		(3) Anal gland	(4) Liver-bile	
	(1) Cellulose which	is digested by cellulase	Q.145	` '	Characteristic of simple epithelium is:	
	(2) Starch which is	not digested	<b>Q</b> 1-1-	(1) They are arranged indiscriminately		
	(3) Lactose which is not digested			(2) They make a de	•	
	(4) DNA which can be digested by pancreatic			` '	livide and help in organ	
	DNA'ase			function		
Q.137	In mammals milk is digested by action of:			(4) None		
	(1) Rennin (2) Amylase		Q.146	Which food should be eaten in deficiency of		
	(3) Intestinal bacteria	a (4) Invertase		Rhodopsin in eyes:		
Q.138		ne of frog is kept in dilute		(1) Carrot & ripe pa	paya	
	hydrochloric acid:			(2) Guava, banana		
	(1) Will become flex	ible		(3) Mango & Potato (4) None		
	(2) Will turn black		Q.147	` /	sponsible for inhibition of	
	(3) Will break in pie	ces	Q.14/	enzymatic process d	*	
	(4) Will shrinke			(1) Substrate	(2) Enzymes	
Q.139		nan is similar with cattle's,		(3) End product	(4) Temperature	
	bovine spongyform	encephalopathy:	Q.148		on the protein formed in host	
	(1) Encephalitis		-	cells to resist is:		
	(2) Jecob-crutzfelt disease			(1) Interferone	(2) Antitoxin	
	(3) Spongiocitis of cerebrum			(3) Antibody	(4) Histone	
0.140	(4) Spondylitis		Q.149	The movement of ions against the concentration		
Q.140	Erythroblastosis foetalis is caused when:			gradient will be:		
	(1) Rh <sup>-</sup> female & Rh			(1) Active transport		
	(2) Rh <sup>+</sup> female & Rh <sup>-</sup> male (3) Rh <sup>+</sup> female & Rh <sup>+</sup> male			(2) Diffusion		
	(4) Rh <sup>-</sup> female & Rh <sup>-</sup> male			(3) Diffusion		
	(T) KII ICIIIAIC & KII	indic		(4) All		

Q.150	Which is not a vestig	gial organ in man :	Q.160	Which cell organe	lle is concerned with	
	(1) Third molar (2) Nails			glycosylation of protein:		
	(3) Segmental muscles of abdomen			(1) Ribosome		
	(4) Coccyx			(2) Peroxisome		
Q.151	Homo sapiens have evolved in :			(3) Endoplasmic reticu	ılum	
	(1) Paleocene (2) Plestocene			(4) Mitochondria		
	(3) Oligocene	(4) Myocene	Q.161	Simillarity in DNA and	d RNA :	
Q.152				(1) Both are polymer of	of nucleotides	
<b>C</b>	evolution :			(2) Both have similar p	pyrimidine	
	(1) Disappearance of	ftail		(3) Both have similar sugar		
	(2) Reduction in size			(4) Both are genetic m	aterial	
	(3) Binocular vision	-	Q.162		to increase the yield in	
	(4) Flat nails		_	paddy crop :		
Q.153	. /	evolution related to Darwin's		(1) Azolla	(2) Salvinia	
_	finches:			(3) Marsilea	(4) Isoetes	
	(1) Evidences from b	piogeographical distribution	Q.163	Plant group with large	est ovule, largest tree, and	
	(2) Evidences from o	comparative anatomy		largest gametes :		
	(3) Evidences from e	embryology		(1) Gymnosperm	(2) Angiosperm	
	(4) Evidences from p	palaeontological		(3) Bryophyta	(4) Pteridophyta	
Q.154	Who is directly relat	ed to man:	Q.164	In ferns, Meiosis takes	s place at the time of:	
	(1) Gorilla	(2) Rhesus		(1) Spore formation		
	(3) Gibbon	(4) Orangutan		(2) Spore germination		
Q.155	Lemur edri-edri is fo	ound in :		(3) Gamete formation		
	(1) Madagascar	(2) Mauritius		(4) Antheridia and arc	•	
	(3) India	(4) Sri Lanka	Q.165	Similarity in Asco	aris lumbricoides and	
Q.156	Coconut milk is used in tissue culture in which			Anopheles stephensi:		
	present :			(1) Sexual dimorphism	* /	
	(1) Cytokinin	(2) Auxin	0.166	- · ·	ion (4) Endoparasitism	
	(3) Gibberellin	(4) Ethylene	Q.166	Length of one loop of		
Q.157	•			(1) 3.4 nm.	(2) 0.34 nm.	
	the reason:	(2) Comments of	0.167	(3) 20 nm.	(4) 10 nm.	
	(1) Gene mutation	(2) Gene synthesis	Q.167	Primary function of e  Pheretima:	nteronephric nephridia of	
0.150		on (4) Gene replication		(1) Osmoregulation		
Q.158		ed as vector because :		(2) Excretion of nitrog	anous wasta	
	join to eukaryot	NA which have capacity to ic DNA		(3) Respiration	chous waste	
		between prokaryotic and		(4) Locomotion		
	eukaryotic cells		Q.168	Which statement is correct:		
	(3) Both ends show	•	Q.100	(1) A. indica is largest wild honey bee		
	(4) It has antibiotic resistance gene			(2) Wax is waste material of honey bee		
Q.159		d in drosophila during the n for example- inplace of		` '	•	
		re formed. Which gene is		(3) C.V. Fritsch discovered the transmission methods in honey bee		
	responsible for :			(4) Drone of honey b		
	(1) Double dominant	gene	Q.169	ATP is:		
	(2) Homeotic gene			(1) Nucleotide	(2) Nucleoside	
	(3) Complimentary g	gene		(3) Nucleic acid	(4) Vitamin	
	(4) Plastid			.,	<b>、</b> /	

$\overline{Q}.170$	Essential amino acid is:	Q.180	What happens in plants during vascularisation:
	(1) Phenyl alanine (2) Glycine		(1) Differentiation of procambium, formation
	(3) Aspartic acid (4) Serine		of primary phloem followed by formation
Q.171	Anticodon occurs in:		of primary xylem
	(1) t-RNA (2) m-RNA		(2) Differentiation of procambium followed by the formation of primary phloem and
	(3) r-RNA (4) DNA		xylem simultaneously
Q.172	In three dimensional view the molecule of		(3) Formation of procambium, primary phloem
	t-RNA is:		and xylem simultaneously
	(1) L-shaped (2) S-shaped		(4) Differentiation of procambium followed by
	(3) Y-shaped (4) E-shaped		the formation of secondary xylem
Q.173	Saline solution is given to patients of Cholera	Q.181	Which of the following ribosomes are engaged in protein synthesis in animal cell:
	because:		(1) Ribosomes which occur on nuclear
	<ul> <li>(1) Na<sup>+</sup> prevents water loss from body</li> <li>(2) NaCl function as regulatory material</li> </ul>		membrane and E.R.
	(3) NaCl produces energy		(2) Ribosomes of only cytosol
	(4) NaCl is antibacterial		(3) Ribosomes of only nucleolus and cytosol
Q.174	Function of telomeres in nucleus :		(4) Ribosomes of only mitochondria and
<b>Q.17</b> .	(1) Pole ward movement		cytosol
	(2) To initiate the RNA synthesis	Q.182	First cloned animal:
	(3) To seal the ends of chromosome		<ul><li>(1) Dolly sheep</li><li>(2) Polly sheep</li><li>(3) Molly sheep</li><li>(4) Dog</li></ul>
	(4) To recognize the homologous chromosome	Q.183	Which of the following is initiation codon:
Q.175	Spindle fibre unite with which structure of	Q.105	(1) UAG (2) AUC
	chromosomes:		(3) AUG (4) CCU
	(1) Chromocentre (2) Chromomere	Q.184	Method of DNA replication in which two
	(3) Kinetochore (4) Centriole		strands of DNA separates and synthesize new
Q.176	Which of the following have carbohydrate as		strands:
	prosthetic group:		(1) Dispersive
	(1) Glycoprotein		(2) Conservative
	<ul><li>(2) Chromoprotein</li><li>(3) Lipoprotein</li></ul>		<ul><li>(3) Semiconservative</li><li>(4) Non conservative</li></ul>
	(4) Nucleoprotein	0.185	In <i>Drosophila</i> the XXY condition leads to
Q.177	Viable material of endangered species can be	Q.130	femaleness whereas in human beings the same
Q.I//	preserved by :		condition leads to Klienfelter's syndrome in
	(1) Gene bank (2) Gene library		male. It proves:
	(3) Herbarium (4) Gene pool		(1) In human beings Y chromosome is active in sex determination
Q.178	Proteoglycan in cartilages which is part of		(2) Y chromosome is active in sex
	polysaccharide:		determination in both human beings and
	(1) Condriotin (2) Ossein		Drosophila  (2) In Drosophila V obromosomo decidos
	(3) Cassin (4) Cartilegen		(3) In <i>Drosophila</i> Y-chromosome decides femaleness
Q.179	Mangolian idiots are due to trisomy in 21 <sup>st</sup>		(4) Y chromosome of man have genes for
	chromosome is called:		syndrome
	<ul><li>(1) Down's syndrome</li><li>(2) Turner's syndrome</li></ul>	Q.186	In which stage of cell cycle, DNA replication
	(3) Kleinfelters syndrome		occurs:
	(4) Triplex syndrome		(1) G <sub>1</sub> - phase (2) S - phase (3) G <sub>2</sub> - phase (4) M - phase
	· · · · · · · · · · · · · · · · · · ·		(3) O2 - pilase (4) IVI - pilase

Q.187	Black rust of wheat i	c rust of wheat is caused by:  Q.197 Most of the mutations are:			s are :	
	(1) Puccinia	(2) Ustilago				(2) Harmful and recessive
	(3) Albugo	(4) Phytophthora		(3)	Beneficial	(4) Dominant
Q.188	Which of the follow	wing animals have scattered	Q.198	Sto	red food in fungi	:
	cells with cell – tissu	ne grade organisation:		(1)	Starch	(2) Proteins
	(1) Sponge	(2) Hydra		(3)	Glycogen	(4) Chitin
	(3) Liver fluke	(4) Ascaris	Q.199	Liv	ing beings mainta	in continuity of life by:
Q.189	Blastopore is the por	re of :		(1)	Adaptation	
	(1) Archenteron	(2) Blastocoel		(2)	DNA-replication	n and its transfer in next
	(3) Coelom	(4) A.C.			generation	
Q.190	Cleavage in mamma	ls:		(3)	RNA synthesis	
	(1) Holoblastic equa	1		(4)	None of the abo	ve
	(2) Holoblastic uneq	ual	Q.200			ffect of destruction of wild
	(3) Superficial			life		
	(4) Discoidal			(1)	-	sease resistance will not be
Q.191	Extranuclear DNA is	s found in :		(2)	obtained	
	(1) Lysosome and ch	_		(2)	Soil erosion	
	(2) Chloroplast and 1			(3)	Floods	
	(3) Mitochondria and	d lysosome		(4)	Green house effe	ect
	(4) Golgi and E.R.					
Q.192						
	ethanol from starch :					
	(1) Penicilline					
	<ul><li>(2) Saccharomyces</li><li>(3) Azotobactor</li></ul>					
	(4) Lactobacillus					
Q.193	` /	an algae with chl. 'a' 'd' and				
Q.175	phycoerythrin it show	_				
	(1) Phaeophyta	(2) Rhodophyta				
	(3) Chlorophyta	(4) Bacillariophyta				
Q.194	Lysosome contains :					
	(1) Oxidative enzymes					
	(2) Hydrolytic enzymes					
	(3) Reductive enzym	nes				
	(4) Anabolic enzyme	es				
Q.195	Role of enzyme in re	eactions :				
	(1) Decrease activati	on energy				
	(2) Increase activation	on energy				
	(3) Inorganic catalys	t				
	(4) None of the abov					
Q.196		ght reaction (Photo chemical				
	reaction):	D 134 DE				
	(1) Formation of ATP and NADPH <sub>2</sub>					
	(2) Formation of ATP					
	(3) Formation of sugar					
	(4) Breakdown of su	gai				