## **AIPMT - 1998**

- Boron has two isotopes <sub>5</sub>B<sup>10</sup> and <sub>5</sub>B<sup>11</sup>. If atomic 0.1 weight of Boron is 10.81 then ratio of 5B10 to <sub>5</sub>B<sup>11</sup> in nature will be :
  - (1) 15:16
- (2) 19:81
- (3)81:19
- (4) 20:53
- **Q.2** A hollow sphere of radius 1m is given a positive charge of 10µC. The electric field at the centre of hollow sphere will be:
  - (1)  $60 \times 10^3 \text{ Vm}^{-1}$
- (2)  $90 \times 10^3 \text{ Vm}^{-1}$
- (3) Zero
- (4) Infinite
- Q.3Following table is for which logic gate:

| Input |   | Output |  |  |
|-------|---|--------|--|--|
| A     | В | С      |  |  |
| 0     | 0 | 1      |  |  |
| 0     | 1 | 1      |  |  |
| 1     | 0 | 1      |  |  |
| 1     | 1 | 0      |  |  |

- (1) AND
- (2) OR
- (3) NAND
- (4) NOT
- **Q.4** Following logic gate is:



- (1) AND
- (2) NAND
- (3) EX-OR
- (4) OR
- 0.5 For a wave  $y = y_0 \sin(\omega t - kx)$ , for what value of  $\lambda$  is the maximum particle velocity equal to two times the wave velocity:
  - (1)  $\pi y_0$
- (2)  $2\pi y_0$
- (3)  $\pi y_0/2$
- $(4) 4\pi y_0$
- 0.6 Two pendulums suspended from same point having length 2m and 0.5m. If they displaced slightly and released then they will be in same phase, when small pendulum will have completed:
  - (1) 2 oscillation
- (2) 4 oscillation
- (3) 3 oscillation
- (4) 5 oscillation
- **Q.7** For protecting a magnetic needle it should be placed:
  - (1) In iron box
- (2) In wooden box
- (3) In metallic box
- (4) None of these

- 0.8 A circular ring of mass M and radius R is rotating about its axis with constant angular velocity ω. Two particle each of mass m are attached gently to the opposite ends of a diameter of the ting. The angular velocity of the ring will now become:
  - $(1) \ \frac{m\omega}{M+2m} \qquad \qquad (2) \ \frac{M\omega}{M-2m}$
  - $(3) \frac{M\omega}{M+2m} \qquad (4) \frac{M+2m}{M\omega}$
- If  $x = 3 4t^2 + t^3$ , then work done in first 4s. **Q.9** will be (Mass of the particle is 3 gram):
  - (1) 384 mJ
- (2) 168 mJ
- (3) 192 mJ
- (4) None of these
- If force F = 500 100t, then function of impulse Q.10 with time will be:
  - $(1) 500t 50t^2$
- (2) 50t -10
- $(3) 50 t^2$
- (4)  $100 t^2$
- Q.11 Half life period of two elements are 40 minute and 20 minute respectively, then after 80 minute ratio of the remaining nuclei will be (Initially both have equal active nuclei):
  - (1) 4:1 (2) 1:2 (3) 8:1

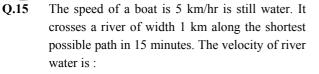
- A particle of mass m is tied to a string of length 0.12L and whirled into a horizontal plan. If tension in the string is T then the speed of the particle

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

Q.13 If the light of wavelength  $\lambda$  is incident on metal surface, the ejected fastest electron has speed v.

> If the wavelength is changed to  $\frac{3\lambda}{4}$ , the speed of the fastest emitted electron will be:

- (1) Smaller than  $\sqrt{\frac{4}{3}}$  v (2) Greater than  $\sqrt{\frac{4}{3}}$  v
- (3) 2v
- (4) Zero
- A coil of one loop is made from a wire of length 0.14 L and thereafter a coil of two loops is made from same wire, then the ratio of magnetic field at the centre of coils will be:
  - (1) 1 : 4
- (2) 1 : 1
- (3)1:8
- (4) 4:1

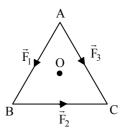


- (1) 3 km/hr
- (2) 4 km/hr
- (3) 5 km/hr
- (4) 2 km/hr
- Q.16 Two identical balls A and B are moving with velocity  $+0.5 \text{ ms}^{-1} \text{ and } -0.3 \text{ ms}^{-1} \text{ respectively.}$  They collide head on elastically then their velocities after collision will be:
  - $(1) 0.3 \text{ ms}^{-1} & 0.5 \text{ ms}^{-1}$
  - $(2) + 0.5 \text{ ms}^{-1} \& + 0.3 \text{ ms}^{-1}$
  - $(3) -0.4 \text{ ms}^{-1} & 0.3 \text{ ms}^{-1}$
  - (4)  $0.3 \text{ ms}^{-1} \& -0.4 \text{ ms}^{-1}$
- Q.17 A small ball is suspended from a thread. It is lifted up with an acceleration 4.9 ms<sup>-2</sup> and lowered with an acceleration 4.9 ms<sup>-2</sup> then the ratio of tensions in the thread in both cases will be:
  - (1)1:3
- (2) 3:1
- (3) 1 : 1
- (4) 1 :  $\sqrt{5}$
- Q.18 One part of a device is connected with the negative terminal of a battery and another part is connected with the positive terminal of a battery. If their ends now altered, current does not flow in circuit, then the device will be:
  - (1) P-N Junction
- (2) Transistor
- (3) Zener diode
- (4) Triode
- Q.19 Light enters at an angle of incidence in a transparent rod of refractive index n. For what value of the refractive index of the material of the rod, the light once entered into it will not leave it through its lateral face whatsoever be the value of angle of incidence:
  - (1) n >  $\sqrt{2}$
- (2) 1.0
- (3) 1.3
- (4) 1.4
- Q.20 10<sup>5</sup> coloumb charge liberated 1 gm silver (Ag). If now charge is doubled then the amount of liberated Ag will be:
  - (1) 1 gm (2) 2 gm (3) 3 gm (4) 4 gm
- Q.21 Work function of a metal surface is  $\phi = 1.5$  eV. If a light of wavelength 5000Å falls on it then the maximum K.E. of ejected electron will be -
  - (1) 1.2 eV
- (2) 0.98 eV
- (3) 0.45 eV
- (4) 0 eV

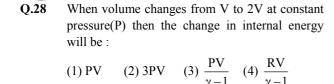
Q.22 If time of mean position from amplitude (extreme) position is 6 s. then the frequency of SHM will be:

(2) 0.02 Hz

- (1) 0.01 Hz
- (3) 0.03 Hz (4) 0.04 Hz
- Q.23 Two coil have a mutual inductance 0.005 H. The current changes in first coil according to equation  $I = I_0$  sin  $\omega$ t where  $I_0 = 2A$  and  $\omega = 100\pi$  rad/sec. The maximum value of emf in second coil is:
  - (1)  $4\pi$  (2)  $3\pi$
  - (3)  $2\pi$  (4)  $\pi$
- Q.24 Resistance of a Galvanometer coil is  $8\Omega$  and  $2\Omega$ Shunt resistance is connected with it. If main current is 1 A then the current flow through  $2\Omega$ resistance will be:
  - (1) 0.2 A
- (2) 0.8 A
- (3) 0.1 A
- (4) 0.4 A
- Q.25 If a ladder is not in balance against a smooth vertical wall, then it can be made in balance by:
  - (1) Decreasing the length of ladder
  - (2) Increasing the length of ladder
  - (3) Increasing the angle of inclination
  - (4) Decreasing the angle of inclination
- Q.26 For a Rocket propulsion velocity of exhaust gases relative to rocket is 2 km/s. If mass of rocket system is 1000 kg, then the rate of fuel consumption for a rocket to rise up with acceleration 4.9 m/s<sup>2</sup> will be:
  - (1) 12.25 kg/s
- (2) 17.5 kg/s
- (3) 7.35 kg/s
- (4) 5.2 kg/s
- **Q.27** O is the centre of an equilateral triangle ABC  $\vec{F}_1$ ,  $\vec{F}_2$ ,  $\vec{F}_3$  are three forces acting along the sides AB, BC and AC as shown in fig. What should be the magnitude of  $\vec{F}_3$  so that total torque about O is zero :



- (1)  $|\vec{F}_3| = |\vec{F}_1| + |\vec{F}_2|$  (2)  $|\vec{F}_3| = |\vec{F}_1| |\vec{F}_2|$
- (3)  $|\vec{F}_3| = \vec{F}_1 + 2\vec{F}_2$  (4) Not possible



- Q.29 A gas of volume changes 2 litre to 10 litre at constant temperature 300K, then the change in
  - internal energy will be: (1) 12 J (2) 24 J (3) 36 J
- 0.30 When three identical bulbs are connected in series, the consumed power is 10W. If they are now connected in parallel then the consumed power will be:
  - (1) 30W (2) 90W (3)  $\frac{10}{3}$  W (4) 270W
- Q.31 A ball is dropped from a height of 5 m, if it rebound upto height of 1.8 m, then the ratio of velocities of the ball after and before rebound is:
  - $(1) \frac{3}{5}$   $(2) \frac{2}{5}$   $(3) \frac{1}{5}$   $(4) \frac{4}{5}$
- Q.32 Two long parallel wires are at a distance of 1m. If both of them carry one ampere of current in same direction, then the force of attraction on unit length of the wires will be:
  - (1)  $2 \times 10^{-7} \text{ N/m}$  (2)  $4 \times 10^{-7} \text{ N/m}$
  - (3)  $8 \times 10^{-7} \text{ N/m}$
- $(4)\ 10^{-7}\ N/m$
- Q.33 For the diffraction from a crystal with  $\lambda = 1$ Å and Bragg's angle  $\theta = 60^{\circ}$ , then for the second order diffraction 'd' will be:
  - (1) 1.15 Å
- (2) 0.75 Å
- (3) 0.55 Å
- (4) 2.1 Å
- If the frequency of a spring is n after suspending Q.34 mass M, now 4M mass is suspended from spring then the frequency will be:
  - (1) 2n
- (2) n/2

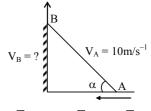
- (3) n
- (4) None of the above
- 0.35 A standing wave having 3 nodes and 2 antinodes is formed between 1.21 Å distance then the wavelength is:
  - (1) 1.21 Å
- (2) 2.42 Å
- (3) 0.605 Å
- (4) 4.84 Å
- Q.36 In hot wire Ammeter due to flowing of current temperature of wire is increased by 5°C. If value of current is doubled, then increases in temperature will be:
  - (1)  $15^{\circ}$ C
- $(2) 20^{\circ}C$
- $(3) 25^{\circ}C$
- (4) 30°C

- Q.37 A car is moving with velocity V. If stop after applying break at a distance of 20 m. If velocity of car is doubled, then how much distance it will cover (travel) after applying break:
  - (1) 40 m (2) 80 m (3) 160 m (4) 320 m
- A charge q is placed in an uniform electric field Q.38 E. If it is released, then the K.E of the charge after travelling distance y will be:
  - (1) qEy
- (2) 2gEy
- $(3) \frac{qEy}{2} \qquad (4) \sqrt{qEy}$
- Q.39 In the Bohr model of H-atom, an electron (e) is revolving around a proton (p) with velocity v, if r is the radius of orbit and m is mass and  $\varepsilon_0$  is vacuum permittivity, the value of v is:
  - $(1) \frac{e}{\sqrt{4\pi m \in_0 r}} \qquad (2) \frac{2e}{\sqrt{\pi m \in_0 r}}$

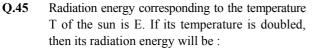
  - $(3) \frac{e}{\sqrt{\pi m \in_0 r}} \qquad (4) \frac{e}{4\pi m \in_0 r}$
- Q.40 Electric field at the equator of a dipole is E. If strength and distance is now doubled then the electric field will be:
  - (1) E/2
- (2) E/8
- (3) E/4
- (4) E
- Q.41 Turn ratio of a step-up transformer is 1:25. If current in load coil is 2A, then the current in primary coil will be:
  - (1) 25A(2) 50A
    - (3) 0.25A (4) 0.5A
- Q.42 If a source moves perpendicularly from listener then the change in frequency will be:
  - (1) 2 n
- (2) n
- (3) n/2
- (4) Zero
- for nuclear reaction: Q.43

$$_{92}U^{235} + _{0}n^{1} \rightarrow _{56}Ba^{144} + \dots + 3_{0}n^{1}$$

- $(1)_{26}Kr^{89}$   $(3)_{26}Sr^{90}$ 
  - $(2)_{36} \text{Kr}^{89}$
- $(4)_{38}Sr^{89}$
- A rigid rod is placed against the wall as shown Q.44 in figure. When its velocity of lower end is 10 ms<sup>-1</sup> and its base makes an angle  $\alpha = 60^{\circ}$  with horizontal, then the vertical velocity of its end B will be:



(1)  $10\sqrt{3}$  (2)  $10/\sqrt{3}$  (3)  $5\sqrt{3}$  (4)  $5/\sqrt{3}$ 



(1) 32 E (2) 16 E (3) 8 E (4) 4 E

**Q.46** The cause of potential barrier in a P–N junction diode is :

- (1) Concentration of positive and negative ions near the junction
- (2) Concentration of positive charges near the junction
- (3) Depletion of negative charges near the junction
- (4) Increment in concentration of holes and electrons near the junction
- Q.47 Common emitter circuit is used as amplifier, its current gain is 50. If input resistance is 1 k $\Omega$  and input voltage is 5 volt then output current will be :

(1) 250 mA

(2) 30 mA

(3) 50 mA

(4) 100 mA

- Q.48 We consider a thermodynamic system. If  $\Delta U$  represents the increase in its internal energy and W the work done by the system, which of the following statements is true?
  - (1)  $\Delta U = -W$  in an isothermal process
  - (2)  $\Delta U = W$  in an isothermal process
  - (3)  $\Delta U = -W$  in an adiabatic process
  - (4)  $\Delta U = W$  in an adiabatic process
- Q.49 A point Q lies on the perpendicular bisector of an electrical dipole of dipole moment p. If the distance of Q from the dipole is r (much larger than the size of the dipole), then the electric field at Q is proportional to:

(1)  $p^2$  and  $r^{-3}$ 

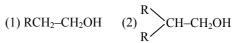
(2) p and  $r^{-2}$ 

(3)  $p^{-1}$  and  $r^{-2}$ 

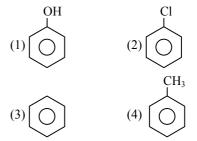
(4) p and  $r^{-3}$ 

- Q.50 A particle, with restoring force proportional to displacement and resisting force proportional to velocity is subjected to a force F sin  $\omega t$ . If the amplitude of the particle is maximum for  $\omega = \omega_1$  and the energy of the particle maximum for  $\omega = \omega_2$ , then :
  - (1)  $\omega_1 \neq \omega_0$  and  $\omega_2 = \omega_0$
  - (2)  $\omega_1 = \omega_0$  and  $\omega_2 = \omega_0$
  - (3)  $\omega_1 = \omega_0$  and  $\omega_2 \neq \omega_0$
  - (4)  $\omega_1 \neq \omega_0$  and  $\omega_2 \neq \omega_0$
- Q.51 Correct order of –I effect is:
  - $(1) NR_3^+ > OR > F$  (2)  $F > -NR_3^+ > -OR$
  - $(3) NR_3^+ > F > OR$  (4)  $OR > -NR_3^+ > F$

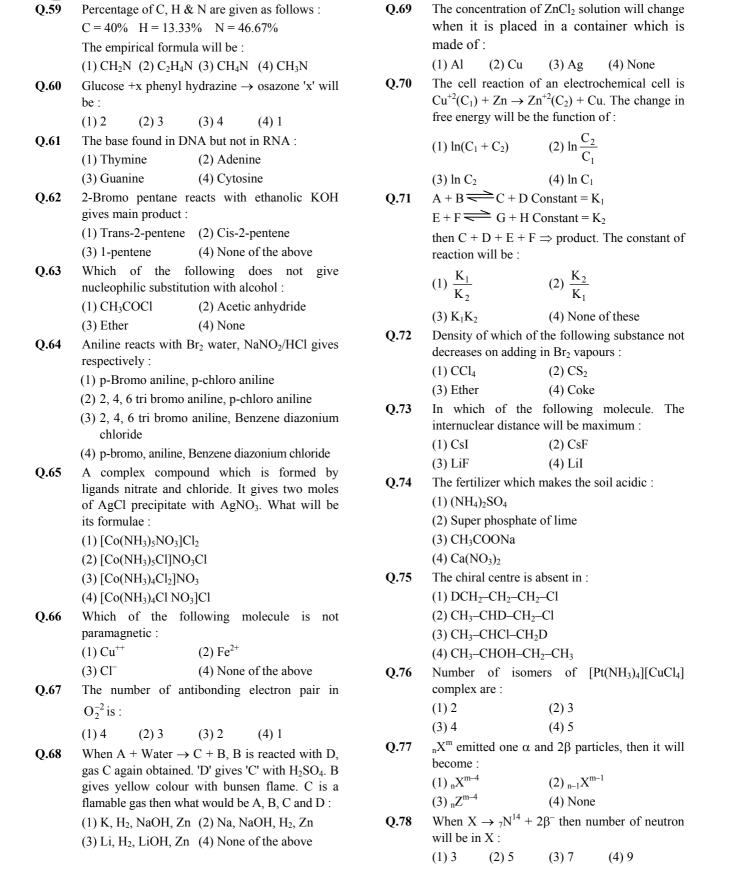
- Q.52 Aspirin can be prepared by the reaction of acetyl chloride with:
  - (1) Benzoic acid
  - (2) Phenol
  - (3) p-hydroxy benzoic acid
  - (4) o-hydroxy benzoic acid
- Q.53 IUPAC name of CI  $CH_3$  C = C  $C_2H_5$  is:
  - (1) (Z)-2-chloro-3-iodo-2-pentene
  - (2) (E)-2-chloro-3-iodo-2-pentene
  - (3) 2-iodo-3-chloro-pentene
  - (4) None of the above
- Q.54 Which of the following does not given iodoform test:
  - (1) 3-pentanone
- (2) 2-pentanone
- (3) Ethanol
- (4) Ethanal
- Q.55 The product formed by the reaction of  $CH_2 CH_2$  with RMgX is :

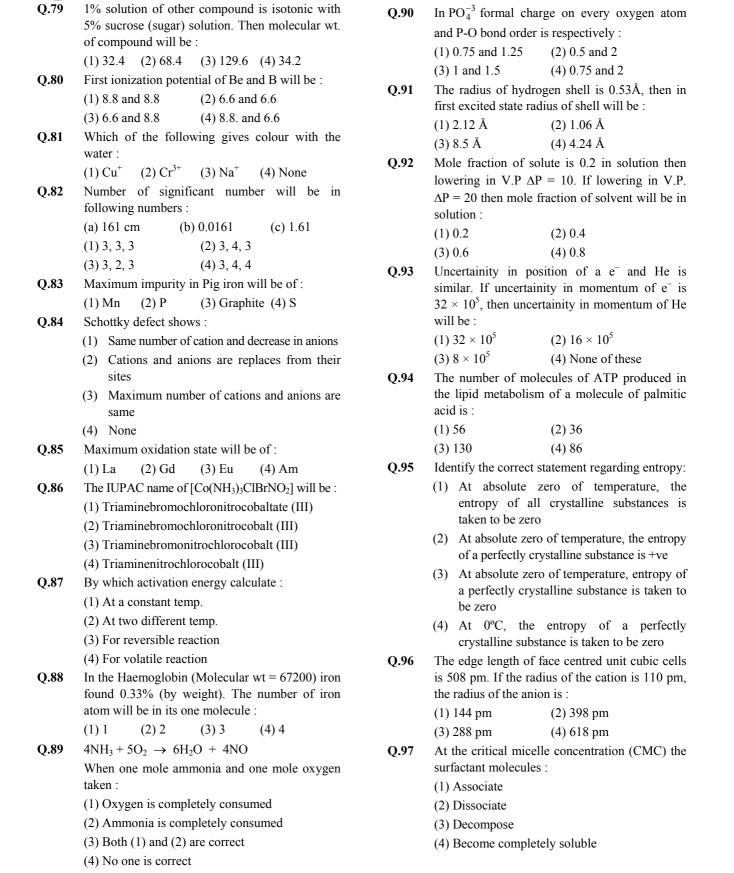


- **Q.56** Which of the following is not the characteristic of arenes:
  - (1) More stability
  - (2) Resonance
  - (3) Delocalization of  $\pi$  electrons
  - (4) Electrophilic addition
- **Q.57** Which of the following gives most easily electrophilic substitution reaction :



- **Q.58** Which of the following does not give claisen condensation reaction:
  - $(1) C_6H_5COOC_2H_5$
  - (2) C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>COOC<sub>2</sub>H<sub>5</sub>
  - $(3) CH_3COOC_2H_5$
  - (4) None of the above





| on reaction will not evolve H₂ gas? (1) Copper and HCI (aqueous) (2) Iron and steam (3) Iron and H₂SO₄ (aqueous) (4) Sodium and ethyl alcohol  Q.99 The second order Bragg diffraction of X-rays with λ = 1.00 Å from a set of parallel planes in a metal occurs at an angle 60°. The distance between the scattering planes in the crystal is: (1) 2.00 Å (2) 1.00 Å (3) 0.575 Å (4) 1.15 Å  Q.100 One mole of an ideal gas at 300 K is expanded isothermally from an initial volume of 1 litre to 10 litres. The AE for this process is (R = 2 cal. mol⁻ K⁻¹): (1) 138.1.1 cal. (2) Zero (3) 163.7 cal. (4) 9 lit atm.  Q.101 If Mendel might have studied 7 pairs of characters in a plant with 12 chromosomes instead of 14 then: (1) He could not discovered independent assortment (2) He might have discovered linkage (3) He might have discovered linkage (3) He might have oto observed dominance (4) He might have not observed dominance (4) He might have incomplete implementation of processing over (4) He might have incomplete implementation of processing over (4) He might have not observed dominance (2) Water should be filled in archegonium for fertilization (3) Water is necessary for movement of sperm (4) For dissemination of spores  Q.104 Which of the following yields citric acid: (1) Penicullium citricum (2) Aspergillus niger  (1) 10 Sodium and (4) Ulothrix (3) ds Linear (4) ss Linear (4) ss Linear (4) ss Linear (4) ss Linear (4) so Sn KNA (2) ds RNA (2) ds RNA (3) sSDNA (4) ds DNA (1) DNA-ligase (2) Restriction endonuclease (3) Exonuclease (4) Peptidase (2) Lise of Ligase for cutting DNA (3) Exonuclease (4) Peptidase (2) Use of Ligase for cutting DNA (3) Developing instruments (2) Use of Ligase for cutting DNA (3) Developing instruments (4) Use of statistic in genetics (1) It contains Fe (2) It concern with oxidation (3) It is a ojoured cell (4) It is a coloured cell (1) It is a coloure   | Q.98  | Which one of the following pairs of substances        | Q.107 | Indicator of water pollution :                 |  |  |
|--|-------|---|-------|--|--|--|
| (2) Iron and steam (3) Iron and H <sub>2</sub> SO <sub>4</sub> (aqueous) (4) Sodium and ethyl alcohol  Q.99 The second order Bragg diffraction of X-rays with λ = 1.00 Å from a set of parallel planes in a metal occurs at an angle 60°. The distance between the scattering planes in the crystal is: (1) 2.00 Å (2) 1.00 Å (3) 0.575 Å (4) 1.15 Å  Q.100 One mole of an ideal gas at 300 K is expanded isothermally from an initial volume of 1 litre to 10 litres. The ΔE for this process is (R = 2 cal. mol <sup>+</sup> K <sup>+</sup> ): (1) 1381.1 cal. (2) Zero (3) 163.7 cal. (4) 9 lit. atm.  Q.101 If Mendel might have studied 7 pairs of characters in a plant with 12 chromosomes instead of 14 then: (1) He could not discovered independent assortment  Q.102 Contraction in gall bladder stimulated by: (1) CCK (2) PZ. (3) Secretin (4) Enteropastrin (2) Water should be filled in archegonium for fertilization (3) Water is necessary for movement of sperm (4) For dissemination of spores  Q.104 Which of the following yields citric acid: (1) Penicillium ctrricum (2) Aspergillus niger  Q.105 Iron and H <sub>2</sub> SO <sub>4</sub> (apueous) (3) da Linear (4) sa RNA (3) sa DNA (4) ds DNA (5) Exerticition endonuclease (3) Exonuclease (4) Peptidase (2) Restriction endonuclease (3) Exonuclease (4) Peptidase (2) Use of Ligase for cutting DNA (3) Developing instruments (4) Use of statistic in genetics (4) It is a coloured cell (1) It contains Fe (2) It contains Fe (2) It contains Fe (3) It contains Fe (4) It is a coloured cell (4) It is a coloured cell (4) Osteoclast (4) Osteoclast (4) Osteoclast (5) If a female having gene for haemophilia and colour-blindness on its one X-chromosome marries a normal male th |       |   |       | _  |  |  |
| (2) Iron and steam (3) Iron and H <sub>2</sub> SO <sub>4</sub> (aqueous) (4) Sodium and ethyl alcohol  Q.99 The second order Bragg diffraction of X-rays with λ = 1.00 Å from a set of parallel planes in a metal occurs at an angle 60°. The distance between the scattering planes in the crystal is: (1) 2.00 Å (2) 1.00 Å (3) 0.575 Å (4) 1.15 Å  Q.100 One mole of an ideal gas at 300 K is expanded isothermally from an initial volume of 1 litre to 10 litres. The ΔE for this process is (R = 2 cal. mol <sup>-1</sup> K <sup>-1</sup> ): (1) 1381.1 cal. (2) Zero (3) 163.7 cal. (4) 9 lit. atm.  Q.101 If Mendel might have studied 7 pairs of characters in a plant with 12 chromosomes instead of 14 then: (1) He could not discovered independent assortment (2) He might have discovered dominance Q.102 Contraction in gall bladder stimulated by: (1) CCK (2) PZ (3) Secretin (4) Enterogastrin (2) Water should be filled in archegonium for fertilization (3) Water is necessary for movement of sperm (4) For dissemination of spores Q.104 Which of the following yields citric acid: (1) Penicillum ctrricum (2) Aspergillus niger  Q.105 Iron and H <sub>2</sub> SO <sub>4</sub> (aqueous) (3) ds Linear (4) ss Linear (1) so RNA (2) ds RNA (3) ss DNA (4) ds DNA (1) DNA-ligase (2) Restriction endonuclease (3) Exonuclease (4) Peptidase (2) Restriction endonuclease (3) Exonuclease (4) Peptidase (2) Use of Ligase for cutting DNA (3) Developing instruments (2) Use of Ligase for cutting DNA (3) Developing instruments (4) Use of statistic in genetics (4) Use of statis |       | (1) Copper and HCl (aqueous)                          |       | (3) Beggiatoa (4) Ulothrix                     |  |  |
| (4) Sodium and ethyl alcohol  Q.99 The second order Bragg diffraction of X-rays with \( \lambda = 1.00 \) A from a set of parallel planes in a metal occurs at an angle 60°. The distance between the scattering planes in the crystal is: (1) 2.00 \( \lambda \) (2) 1.00 \( \lambda \) (3) 0.575 \( \lambda \) (4) 1.15 \( \lambda \)  Q.100 One mole of an ideal gas at 300 K is expanded isothermally from an initial volume of 1 litre to 10 litres. The AE for this process is (R = 2 cal. mol <sup>-1</sup> K <sup>-1</sup> ): (1) 1381.1 cal. (2) Zero (3) 163.7 cal. (4) 9 lit atm.  Q.101 If Mendel might have studied 7 pairs of characters in a plant with 12 chromosomes instead of 14 then: (1) He could not discovered independent assortment (2) He might have discovered linkage (3) He might have not observed dominance (4) He might have not observed dominance (4) He might have not observed dominance (5) It concern with oxidation (6) Statistic in genetics (7) It is a pigment (8) It is a pigment (9) It is a coloured cell (9) It is a coloured cell (9) It concern with oxidation (3) It is a pigment (4) It is a coloured cell (9) It concern with oxidation (3) It is a pigment (4) It is a coloured cell (9) It concern with oxidation (3) It is a pigment (4) It is a coloured cell (9) It concern with oxidation (3) It is a pigment (4) It is a coloured cell (9) It concern with oxidation (3) It is a pigment (4) It is a coloured cell (9) It of tertilization (1) For fertilization and homosporos nature (2) Water should be filled in archegonium for fertilization (3) Water is essential for bryophyta: (1) For fertilization and homosporos nature (2) Water should be filled in archegonium for fertilization (3) Water is essential for bryophyta: (1) For fertilization and homosporos nature (2) Water should be filled in archegonium for fertilization (3) Water is essential for bryophyta: (4) For dissemination of spores (4) Peptidase (2) It concern with oxidation (3) It is a pigment (4) It is a coloured cell (9) It concern with oxidation (3) It is a pigment (4) It is a coloured cel  |       | (2) Iron and steam                                    | Q.108 |  |  |  |
| <ul> <li>Q.109 The second order Bragg diffraction of X-rays with λ = 1.00 Å from a set of parallel planes in a metal occurs at an angle 60°. The distance between the scattering planes in the crystal is:  (1) 2.00 Å (2) 1.00 Å (3) 0.575 Å (4) 1.15 Å</li> <li>Q.100 One mole of an ideal gas at 300 K is expanded isothermally from an initial volume of 1 litre to 10 litres. The ΔE for this process is (R = 2 cal. mol<sup>-1</sup> K<sup>-1</sup>):  (1) 138.1 cal. (2) Zero (3) 163.7 cal. (4) 9 lit. atm.</li> <li>Q.101 If Mendel might have studied 7 pairs of characters in a plant with 12 chromosomes instead of 14 then:  (1) He could not discovered independent assortment</li> <li>(2) He might have discovered crossing over (4) He might have observed dominance</li> <li>Q.102 Contraction in gall bladder stimulated by: (1) CCK (2) PZ (3) Secretin (4) Enterogastrin</li> <li>Q.103 Water is essential for bryophyta: (1) For fertilization and homosporos nature (2) Water should be filled in archegonium for fertilization (3) Water is necessary for movement of sperm</li> <li>Q.104 Which of the following yields citric acid: (1) Penicillium citricum (2) Aspergillus niger</li> <li>Q.105 Citraction in an an angle 60°. The distance between the sactoring planes in the crystal is: (1) DNA-ligase (2) Restriction endonuclease (3) Exonuclease (4) Peptidase (2) Use of Ligase for cutting DNA (3) Developing instruments (4) Use of statistic in genetics</li> <li>Q.112 Which is wrong for cytochrome P-450 (1) It contains Fe (2) It concern with oxidation (3) It is a pigment (4) It is a coloured cell (4) It is a coloured cell (4) It is a coloured cell (5) It concern with oxidation (3) Osteoblast (4) Osteoclast (4) It is a coloured cell (5) It concern with oxidation (6) It is a pigment (7) It is a pigment (9) It is a pigment (1) It contains Fe (2) It concern with oxidation (3) It is a pigment (4) It is a coloured cell (1) It is a coloured cell (2) It far female having gene for haemophilia and colour-blindness on its one X-chromosome marries a normal male then what are t</li></ul>                                    |       | (3) Iron and H <sub>2</sub> SO <sub>4</sub> (aqueous) |       | (1) ds circular (2) ss circular                |  |  |
| <ul> <li>Q.109 The second order Bragg diffraction of X-rays with λ = 1.00 Å from a set of parallel planes in a metal occurs at an angle 60°. The distance between the scattering planes in the crystal is:  (1) 2.00 Å (2) 1.00 Å (3) 0.575 Å (4) 1.15 Å</li> <li>Q.100 One mole of an ideal gas at 300 K is expanded isothermally from an initial volume of 1 litre to 10 litres. The AE for this process is (R = 2 cal. mol<sup>-1</sup> K<sup>-1</sup>):  (1) 138.1.1 cal. (2) Zero (3) 163.7 cal. (4) 9 lit. atm.</li> <li>Q.101 If Mendel might have studied 7 pairs of characters in a plant with 12 chromosomes instead of 14 then: (1) He could not discovered independent assortment</li> <li>(2) He might have discovered linkage</li> <li>(3) He might have discovered crossing over (4) He might have not observed dominance</li> <li>Q.102 Contraction in gall bladder stimulated by: (1) CCK (2) PZ (3) Secretin (4) Enterogastrin</li> <li>Q.103 Water is essential for bryophyta: (1) For fertilization and homosporos nature (2) Water should be filled in archegonium for fertilization (3) Water is necessary for movement of sperm (4) For dissemination of spores</li> <li>Q.104 Which of the following yields citric acid: (1) Penicillium ctiricum (2) Aspergillus niger</li> <li>Q.105 Q.106 RNA (3) sp NNA (4) ds RNA (3) ss NNA (4) ds DNA</li> <li>Q.110 Knife of DNA: (1) DNA-ligase (2) Restriction endonuclease (3) Exonuclease (4) Peptidase</li> <li>Q.110 Use of restriction endonuclease (3) Exonuclease (4) Peptidase</li> <li>Q.111 Use of restriction endonuclease (3) Exonuclease (4) Peptidase</li> <li>Q.112 Use of Ligase for cutting DNA (3) Developing instruments</li> <li>(2) Use of Ligase for cutting DNA</li> <li>(3) Developing instruments</li> <li>(4) Use of statistic in genetics</li> <li>Q.112 Which is wrong for cytochrome P-450</li> <li>(1) It contains Fe</li> <li>(2) It concern with oxidation</li> <li>(3) It is a pigment</li> <li>(4) It is a coloured cell</li> <li>Q.113 Enamel of teeth is secreted by: (1) Ameloblast (2) Odontoblast</li> <li>(3) Osteoblast (4) Osteocla</li></ul>                                    |       | (4) Sodium and ethyl alcohol                          |       | (3) ds Linear (4) ss Linear                    |  |  |
| with \( \lambda = 1.00 \( \hat{\ h} \) from a set of parallel planes in a metal occurs at an angle 60°. The distance between the scattering planes in the crystal is: \( (1) 2.00 \hat{\ h} \) (2) 1.00 \hat{\ h} \) \( (3) 0.575 \hat{\ h} \) (4) 1.15 \hat{\ h} \) \( (3) 0.575 \hat{\ h} \) (4) 1.15 \hat{\ h} \) \( (4) 0.100 \) \( (1) 0 \) \( (1   | Q.99  | The second order Bragg diffraction of X-rays          | Q.109 | Nucleic acid in HIV:                           |  |  |
| metal occurs at an angle 60°. The distance between the scattering planes in the crystal is:  (1) 2.00 Å (2) 1.00 Å (3) 0.575 Å (4) 1.15 Å  Q.100 One mole of an ideal gas at 300 K is expanded isothermally from an initial volume of 1 litre to 10 litres. The ΔE for this process is (R = 2 cal. mol <sup>-1</sup> K <sup>-1</sup> ):  (1) 1381.1 cal. (2) Zero (3) 163.7 cal. (4) 9 lit. atm.  Q.101 If Mendel might have studied 7 pairs of characters in a plant with 12 chromosomes instead of 14 then:  (1) He could not discovered independent assortment (2) He might have discovered linkage (3) He might have discovered crossing over (4) He might have not observed dominance Q.102 Contraction in gall bladder stimulated by: (1) CCK (2) PZ (3) Secretin (4) Enterogastrin Q.103 Water is essential for bryophyta: (1) For fertilization and homosporos nature (2) Water should be filled in archegonium for fertilization (3) Water is necessary for movement of sperm (4) For dissemination of spores Q.104 Which of the following yields citric acid: (1) Penicillium citricum (2) Aspergillus niger  (3) SDNA (4) ds DNA (1) DNA-ligase (2) Restriction endonuclease (3) Exonuclease (4) Peptidase Q.111 Genetic engineering involves: (1) Use of restriction endonuclease (3) Developing instruments (4) Use of statistic in genetics (4) Use of statistic in genetics (1) It contains Fe (2) It concern with oxidation (3) It is a pigment (4) It is a coloured cell Q.113 Enamel of teeth is secreted by: (1) Ameloblast (2) Odontoblast (3) Osteoblast (4) Osteoclast (3) Et microtion endonuclease (4) Peptidase Q.111 (1) Use of restriction endonuclease on bacterial DNA and formation of new traits (2) Use of Ligase for cutting DNA (3) Developing instruments (4) Use of statistic in genetics (1) It contains Fe (2) It concern with oxidation (3) It is a pigment (4) It is a coloured cell Q.113 Enamel of teeth is secreted by: (1) Ameloblast (2) Odontoblast (3) Osteoblast (4) Osteoclast (3) Osteoblast (4) Osteoclast (1) Ameloblast (2) Odontoblast (3) Osteoblast (4) Osteoclast (4) Osteoclast (4) Osteo  |       |   |       | (1) ss RNA (2) ds RNA                          |  |  |
| (1) 2.00 Å (2) 1.00 Å (3) 0.575 Å (4) 1.15 Å  Q.100 One mole of an ideal gas at 300 K is expanded isothermally from an initial volume of 1 litre to 10 litres. The AE for this process is (R = 2 cal. mol <sup>-1</sup> K <sup>-1</sup> ): (1) 1381.1 cal. (2) Zero (3) 163.7 cal. (4) 9 lit. atm.  Q.101 If Mendel might have studied 7 pairs of characters in a plant with 12 chromosomes instead of 14 then: (1) He could not discovered independent assortment (2) He might have discovered linkage (3) He might have discovered crossing over (4) He might have not observed dominance Q.102 Contraction in gall bladder stimulated by: (1) CCK (2) PZ (3) Secretin (4) Enterogastrin Q.103 Water is essential for bryophyta: (1) For fertilization and homosporos nature (2) Water should be filled in archegonium for fertilization (3) Water is necessary for movement of sperm (4) For dissemination of spores Q.104 Which of the following yields citric acid: (1) Penicillium citricum (2) Aspergillus niger  (1) Sook on diseased (2) Restriction endonuclease (3) Exonuclease (4) Peptidase (2) Restriction endonuclease (3) Exonuclease (4) Peptidase (2) Restriction endonuclease (3) Exonuclease (4) Peptidase (2) Restriction endonuclease (4) Peptidase (2) Use of Ligase for cutting DNA (3) Developing instruments (4) Use of statistic in genetics (1) It contains Fe (2) It concern with oxidation (3) It is a pigment (4) It is a coloured cell (4) It is a coloured cell (5) Osteoblast (6) Restriction endonuclease (4) Peptidase (2) Use of Ligase for cutting DNA (3) Developing instruments (4) Use of statistic in genetics (1) It contains Fe (2) It concern with oxidation (3) It is a pigment (4) It is a coloured cell (4) It is a coloured cell (5) Osteoblast (6) Penicilaes (7) Penicilaes (8) Enamel of teeth is secreted by: (1) Ameloblast (2) Odontoblast (3) Osteoblast (4) Osteoclast (4) Peptidase (2) It concern with oxidation (3) It is a pigment (4) It is a coloured cell (5) It contains Fe (7) It demicration of Enamchant is a pigment (9) It contains Fe (10) It contains Fe (11) It contains F  |       | <u> </u>  |       |  |  |  |
| (3) 0.575 Å (4) 1.15 Å  Q.100 One mole of an ideal gas at 300 K is expanded isothermally from an initial volume of 1 litre to 10 litres. The AE for this process is (R = 2 cal. mol <sup>-1</sup> K <sup>-1</sup> ): (1) 1381.1 cal. (2) Zero (3) 163.7 cal. (4) 9 lit. atm.  Q.101 If Mendel might have studied 7 pairs of characters in a plant with 12 chromosomes instead of 14 then: (1) He could not discovered independent assortment (2) He might have discovered linkage (3) He might have discovered dominance (2) He might have not observed dominance (4) He might have not observed dominance (5) PZ (6) Sextriction endonuclease (6) Peptidase (7) Edentic engineering involves: (1) Use of restriction endonuclease on bacterial DNA and formation of new traits (2) Use of Ligase for cutting DNA (3) Developing instruments (4) Use of statistic in genetics (1) It contains Fe (2) It concern with oxidation (3) It is a pigment (4) It is a coloured cell (4) It is a coloured cell (5) Enamel of teeth is secreted by: (1) Ameloblast (2) Odontoblast (3) Osteoblast (4) Osteoclast (4) Osteoclast (5) Enamel of restriction endonuclease (6) Peptidase (9.111 Use of restriction endonuclease on bacterial DNA and formation of new traits (2) Use of Ligase for cutting DNA (3) Developing instruments (4) Use of statistic in genetics (4) It contains Fe (2) It concern with oxidation (3) It is a pigment (4) It is a coloured cell (5) It concern with oxidation (6) It is a pigment (7) Ameloblast (9) Odontoblast (1) Ameloblast (2) Odontoblast (3) Osteoblast (4) Osteoclast (1) If a female having gene for haemophilia and colour-blindness on its one X-chromosome marries a normal male then what are the chances in their offsprings (1) Sow son diseased (2) All normal offsprings (3) 100% daughters are carrier (4) 100% son diseased  |       |   | Q.110 | Knife of DNA:                                  |  |  |
| Q.100 One mole of an ideal gas at 300 K is expanded isothermally from an initial volume of 1 litre to 10 litres. The AE for this process is (R = 2 cal. mol <sup>-1</sup> K <sup>-1</sup> ): (1) 1381.1 cal. (2) Zero (3) 163.7 cal. (4) 9 lit. atm. Q.101 If Mendel might have studied 7 pairs of characters in a plant with 12 chromosomes instead of 14 then: (1) He could not discovered independent assortment (2) He might have discovered linkage (3) He might have discovered dominance Q.102 Contraction in gall bladder stimulated by: (1) CCK (2) PZ (3) Secretin (4) Enterogastrin Q.103 Water is essential for bryophyta: (1) For fertilization and homosporos nature (2) Water should be filled in archegonium for fertilization (4) For dissemination of spores Q.104 Which of the following yields citric acid: (1) Penicillium citricum (2) Aspergillus niger  (2) Restriction endonuclease (4) Peptidase Q.111 Genetic engineering involves: (1) Use of restriction endonuclease on bacterial DNA and formation of new traits (2) Use of Ligase for cutting DNA (3) Developing instruments (4) Use of statistic in genetics (1) It contains Fe (2) It concern with oxidation (3) It is a pigment (4) It is a coloured cell (1) Enamel of teeth is secreted by: (1) Ameloblast (2) Odontoblast (2) Odontoblast (3) Osteoblast (4) Osteoclast (1) Fa female having gene for haemophilia and colour-blindness on its one X-chromosome marries a normal male then what are the chances in their offsprings (1) 50% son diseased and 50% normal (2) All normal offsprings (3) 100% daughters are carrier (4) 100% son diseased  |       |   |       | (1) DNA-ligase                                 |  |  |
| (3) Exonuclease (4) Peptidase (5) Iters. The AE for this process is (R = 2 cal. mol <sup>-1</sup> K <sup>-1</sup> ): (1) 1381.1 cal. (2) Zero (3) 163.7 cal. (4) 9 lit. atm. (2) If Mendel might have studied 7 pairs of characters in a plant with 12 chromosomes instead of 14 then: (1) He could not discovered independent assortment (2) He might have discovered linkage (3) He might have discovered crossing over (4) He might have not observed dominance (2) He might have observed dominance (3) Secretin (4) Enterogastrin (1) For fertilization and homosporos nature (2) Water is necessary for movement of sperm (4) For dissemination of spores (2) Aspergillus niger  (3) Exonuclease (4) Peptidase (2) Use of restriction endonuclease on bacterial DNA and formation of new traits (2) Use of Ligase for cutting DNA (3) Developing instruments (4) Use of statistic in genetics (1) It contains Fe (2) It concern with oxidation (3) It is a pigment (4) It is a coloured cell (1) Ameloblast (2) Odontoblast (3) Osteoblast (4) Osteoclast (4) Peptidase (2) Use of restriction endonuclease on bacterial DNA and formation of new traits (4) Use of statistic in genetics (1) It contains Fe (2) It concern with oxidation (3) It is a pigment (4) It is a coloured cell (1) Ameloblast (2) Odontoblast (3) Osteoblast (4) Osteoclast (4) Peptidase (2) It concern with oxidation (3) It is a pigment (4) It is a coloured cell (1) Ameloblast (2) Odontoblast (3) Osteoblast (4) Osteoclast (1) Ameloblast (2) Odontoblast (3) Osteoblast (4) Osteoclast (1) Ameloblast (2) Odontoblast (3) Osteoblast (4) Osteoclast (4) It is a coloured cell (1) Ameloblast (2) Odontoblast (3) Osteoblast (4) Osteoclast (4) It is a coloured cell (5) All normal offsprings (1) Ameloblast (2) Odontoblast (3) Osteoblast (4) Osteoclast (4) Osteoclast (5) It concern with oxidation (6) It is a pigment (7) Ameloblast (2) Odontoblast (8) Osteoblast (4) Osteoclast (9) Osteoclast (1) Ameloblast (2) Odontoblast (3) Osteoblast (4) Osteoclast (4) Osteoclast (1) Osomo diseased and 50% normal (2) All normal offsprings (3) It is  |       | ` /   |       |  |  |  |
| 10 litres. The ΔE for this process is (R = 2 cal. mol <sup>-1</sup> K <sup>-1</sup> ): (1) 1381.1 cal. (2) Zero (3) 163.7 cal. (4) 9 lit. atm.   Q.101 If Mendel might have studied 7 pairs of characters in a plant with 12 chromosomes instead of 14 then: (1) He could not discovered independent assortment (2) He might have discovered linkage (3) He might have not observed dominance (4) He might have not observed dominance (5) He might have not observed dominance (6) PZ (7) CCK (7) PZ (8) Secretin (9) Enterogastrin (1) For fertilization and homosporos nature (2) Water is essential for bryophyta: (1) For destilization and homosporos nature (2) Water is necessary for movement of sperm (4) For dissemination of spores (2) Aspergillus niger (4) Peptidase (2) Use of restriction endonuclease on bacterial DNA and formation of new traits (2) Use of Ligase for cutting DNA (3) Developing instruments (4) Use of statistic in genetics (4) Use of statistic in genetics (4) Use of statistic in genetics (4) It is a coloured cell (2) It concern with oxidation (3) It is a pigment (4) It is a coloured cell (4) If a female having gene for haemophilia and colour-blindness on its one X-chromosome marries a normal male then what are the chances in their offsprings (2) All normal offsprings (3) 100% daughters are carrier (4) 100% son diseased (4) Peptidase (2) Use of Ligase for cutting DNA (3) Developing instruments (4) Use of statistic in genetics (4) Use of statistic in genetics (4) It is a coloured cell (9.113 Enamel of teeth is secreted by: (1) Ameloblast (2) Odontoblast (3) Osteoblast (4) Osteoclast (1) Ameloblast (2) Odontoblast (2) Water should be filled in archegonium for fertilization (3) Water is necessary for movement of sperm (4) For dissemination of spores (4) For dissemination of spores (4) For dissemination of spores (5) If a female having gene for haemophilia and colour-blindness on its one X-chromosome marries a normal male then what are the chances in their offsprings (5) All normal offsprings (6) All normal offsprings (7) All normal offspr   | Q.100 | · · · · · · · · · · · · · · · · · · ·                 |       |  |  |  |
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| Q.101 If Mendel might have studied 7 pairs of characters in a plant with 12 chromosomes instead of 14 then:  (1) He could not discovered independent assortment  (2) He might have discovered linkage (3) He might have discovered crossing over (4) He might have not observed dominance  Q.102 Contraction in gall bladder stimulated by: (1) CCK (2) PZ (3) Secretin (4) Enterogastrin  Q.103 Water is essential for bryophyta: (1) For fertilization (3) Water is necessary for movement of sperm (4) For dissemination of spores  Q.104 Which of the following yields citric acid: (1) Penicillium citricum (2) Aspergillus niger  DNA and formation of new traits (2) Use of Ligase for cutting DNA (3) Developing instruments (4) Use of statistic in genetics (2) It concern with oxidation (3) It is a pigment (4) It is a coloured cell (1) Ameloblast (2) Odontoblast (3) Osteoblast (4) Osteoclast (1) If a female having gene for haemophilia and colour-blindness on its one X-chromosome marries a normal male then what are the chances in their offsprings: (1) 50% son diseased and 50% normal (2) All normal offsprings (3) 100% daughters are carrier (4) 100% son diseased  |       |   |       |  |  |  |
| Q.101 If Mendel might have studied 7 pairs of characters in a plant with 12 chromosomes instead of 14 then:  (1) He could not discovered independent assortment  (2) He might have discovered linkage (3) He might have discovered crossing over (4) He might have not observed dominance  Q.102 Contraction in gall bladder stimulated by: (1) CCK (2) PZ (3) Secretin (4) Enterogastrin  Q.103 Water is essential for bryophyta: (1) For fertilization and homosporos nature (2) Water should be filled in archegonium for fertilization (3) Water is necessary for movement of sperm (4) For dissemination of spores  Q.104 Which of the following yields citric acid: (1) Penicillium citricum (2) Aspergillus niger  (2) Use of Ligase for cutting DNA (3) Developing instruments (4) Use of statistic in genetics (1) It contains Fe (2) It concern with oxidation (3) It is a pigment (4) It is a coloured cell (9.113 Enamel of teeth is secreted by: (1) Ameloblast (2) Odontoblast (3) Osteoblast (4) Osteoclast (1) Affermale having gene for haemophilia and colour-blindness on its one X-chromosome marries a normal male then what are the chances in their offsprings: (1) 50% son diseased and 50% normal (2) All normal offsprings (3) 100% daughters are carrier (4) 100% son diseased (4) 100% son diseased  |       | · /   |       | DNA and formation of new traits                |  |  |
| characters in a plant with 12 chromosomes instead of 14 then:  (1) He could not discovered independent assortment  (2) He might have discovered crossing over (4) He might have not observed dominance  (3) Secretin (4) Enterogastrin  (4) Enterogastrin  (5) Water is essential for bryophyta:  (6) Water should be filled in archegonium for fertilization  (7) Water is necessary for movement of sperm  (8) Water is necessary for movement of sperm  (9) Which of the following yields citric acid:  (1) Penicillium citricum  (2) Aspergillus niger  (3) Developing instruments  (4) Use of statistic in genetics  (1) It contains Fe  (2) It concern with oxidation  (3) It is a pigment  (4) It is a coloured cell  (2) All ameloblast  (2) Odontoblast  (3) Osteoblast  (4) Osteoclast  (4) Osteoclast  (1) Fa female having gene for haemophilia and colour-blindness on its one X-chromosome marries a normal male then what are the chances in their offsprings:  (1) 50% son diseased and 50% normal  (2) All normal offsprings  (3) 100% daughters are carrier  (4) 100% son diseased  (4) 100% son diseased  (5) All normal offsprings  (6) All normal offsprings  (7) All normal offsprings  (8) It is a pigment  (9) Odontoblast  (1) Ameloblast  (1) Son one X-chromosome marries a normal male and female is offsprings  (1) 50% son diseased  (2) All normal offsprings  (3) 100% daughters are carrier  (4) 100% son diseased  (5) All normal offsprings  (6) All normal offsprings  (7) All normal offsprings  (8) It is a pigment  (9) Odontoblast  (1) Ameloblast  (1) Son one X-chromosome marries a normal male and female is offsprings  (9) All normal offsprings  (1) First child of a normal male and female is offsprings  | O.101 | ` /   |       | (2) Use of Ligase for cutting DNA              |  |  |
| (1) He could not discovered independent assortment (2) He might have discovered linkage (3) He might have discovered crossing over (4) He might have not observed dominance (4) He might have not observed dominance (5) Contraction in gall bladder stimulated by: (1) CCK (2) PZ (3) Secretin (4) Enterogastrin (2) Water is essential for bryophyta: (1) For fertilization and homosporos nature (2) Water should be filled in archegonium for fertilization (3) Water is necessary for movement of sperm (4) For dissemination of spores  Q.104 Which is wrong for cytochrome P-450 (1) It contains Fe (2) It concern with oxidation (3) It is a pigment (4) It is a coloured cell (1) Ameloblast (2) Odontoblast (3) Osteoblast (4) Osteoclast (4) Osteoclast (5) Water is necessary for movement of sperm (6) Water is necessary for movement of sperm (7) For dissemination of spores (8) Water is necessary for movement of sperm (9) Which of the following yields citric acid: (1) Penicillium citricum (2) Aspergillus niger (1) It contains Fe (2) It concern with oxidation (3) It is a pigment (4) It is a coloured cell (1) Ameloblast (2) Odontoblast (3) Osteoblast (4) Osteoclast (1) If a female having gene for haemophilia and colour-blindness on its one X-chromosome marries a normal male then what are the chances in their offsprings (1) 50% son diseased and 50% normal (2) All normal offsprings (3) 100% daughters are carrier (4) 100% son diseased (5) It concern with oxidation (6) It is a pigment (7) It is a reputation (8) It is a pigment (9) It is a reputation (9) It is a reputation (1) Ameloblast (2) Odontoblast (3) Osteoblast (4) Osteoclast (1) Sow son diseased and 50% normal (2) All normal offsprings (3) 100% daughters are carrier (4) 100% son diseased (5) It concern with oxidation (6) It is a reputation  |       |   |       | (3) Developing instruments                     |  |  |
| assortment (2) He might have discovered linkage (3) He might have discovered crossing over (4) He might have not observed dominance (4) It is a pigment (4) It is a pigment (4) It is a pigment (4) It is a coloured cell (5) It concern with oxidation (6) It is a pigment (7) It is a pigment (8) It is a pigment (9) It is a coloured cell (1) It contains Fe (2) It concern with oxidation (3) It is a pigment (4) It is a coloured cell (5) It concern with oxidation (6) It is a pigment (7) It concern with oxidation (7) It concern with oxidation (7) It is a pigment (8) It is a pigment (9) It concern with oxidation (1) It contains Fe (2) It concern with oxidation (3) It is a pigment (4) It is a coloured cell (1) Ameloblast (2) Odontoblast (3) Osteoblast (4) Osteoclast (3) Osteoblast (4) Osteoclast (4) If a female having gene for haemophilia and colour-blindness on its one X-chromosome marries a normal male then what are the chances in their offsprings: (1) 50% son diseased and 50% normal (2) All normal offsprings (3) 100% daughters are carrier (4) 100% son diseased (5) It concern with oxidation (6) It is a pigment (7) It concern with oxidation (8) It is a pigment (9) It concern with oxidation (1) It contains Fe (2) It concern with oxidation (3) It is a pigment (4) It is a pigment (4) It is a pigment (4) It is a coloured cell  Plant of teeth is secreted by: (1) Ameloblast (2) Odontoblast (3) Osteoblast (4) Osteoclast (1) For fertilization and homosporos nature (2) Water should be filled in archegonium for colour-blindness on its one X-chromosome marries a normal male then what are the chances in their offsprings (1) 50% son diseased and 50% normal (2) All normal offsprings (3) 100% daughters are carrier (4) 100% son diseased  |       | instead of 14 then:                                   |       |  |  |  |
| (2) He might have discovered linkage (3) He might have discovered crossing over (4) He might have not observed dominance (4) It is a coloured cell  Q.102 Contraction in gall bladder stimulated by: (1) CCK (2) PZ (3) Secretin (4) Enterogastrin (1) For fertilization and homosporos nature (2) Water should be filled in archegonium for fertilization (3) Water is necessary for movement of sperm (4) For dissemination of spores  Q.104 Which of the following yields citric acid: (1) Penicillium citricum (2) Aspergillus niger  (3) It is a pigment (4) It is a coloured cell  Q.113 Enamel of teeth is secreted by: (1) Ameloblast (2) Odontoblast (3) Osteoblast (4) Osteoclast  Q.114 If a female having gene for haemophilia and colour-blindness on its one X-chromosome marries a normal male then what are the chances in their offsprings: (1) 50% son diseased and 50% normal (2) All normal offsprings (3) 100% daughters are carrier (4) 100% son diseased  Q.115 First child of a normal male and female is second shill to  |       | -   | Q.112 |  |  |  |
| (3) He might have discovered crossing over (4) He might have not observed dominance  (4) He might have not observed dominance  (5) It is a pigment (6) It is a coloured cell  (7) CCK (8) PZ (9) PZ (1) Ameloblast (1) Ameloblast (2) Odontoblast (3) Osteoblast (4) Osteoclast  (3) Osteoblast (4) Osteoclast  (4) For fertilization and homosporos nature (5) Water should be filled in archegonium for fertilization (6) Water is necessary for movement of sperm (7) For dissemination of spores (8) It is a pigment (9) It is a coloured cell (1) Ameloblast (2) Odontoblast (3) Osteoblast (4) Osteoclast (4) Osteoclast (5) Osteoblast (6) Osteoblast (7) Osteoblast (8) Osteoblast (9) Osteoblast (9) Osteoblast (1) Some on its one X-chromosome marries a normal male then what are the chances in their offsprings (1) 50% son diseased and 50% normal (2) All normal offsprings (3) 100% daughters are carrier (4) 100% son diseased (5) It is a pigment (4) It is a coloured cell (1) Ameloblast (2) Odontoblast (3) Osteoblast (4) Osteoclast (4) Osteoclast (5) Osteoblast (6) Osteoblast (7) Osteoblast (8) Osteoblast (9) Osteoblast (9) Odontoblast (1) Ameloblast (2) Odontoblast (3) Osteoblast (4) Osteoclast (5) Osteoblast (6) Osteoblast (7) Osteoblast (9) Odontoblast (1) Ameloblast (2) Odontoblast (3) Osteoblast (4) Osteoclast (1) For fertilization and colour-blindness on its one X-chromosome marries a normal male then what are the chances in their offsprings (1) 50% son diseased (2) All normal offsprings (3) 100% daughters are carrier (4) 100% son diseased (5) First child of a normal male and female is obtained to the chances of second child to the chanc   |       |   |       |  |  |  |
| (4) He might have not observed dominance  Q.102 Contraction in gall bladder stimulated by: (1) CCK (2) PZ (3) Secretin (4) Enterogastrin  Q.103 Water is essential for bryophyta: (1) For fertilization and homosporos nature (2) Water should be filled in archegonium for fertilization (3) Water is necessary for movement of sperm (4) For dissemination of spores  Q.104 Which of the following yields citric acid: (1) Penicillium citricum (2) Aspergillus niger  (4) It is a coloured cell  Q.113 Enamel of teeth is secreted by: (1) Ameloblast (2) Odontoblast (3) Osteoblast (4) Osteoclast  Q.114 If a female having gene for haemophilia and colour-blindness on its one X-chromosome marries a normal male then what are the chances in their offsprings: (1) 50% son diseased and 50% normal (2) All normal offsprings (3) 100% daughters are carrier (4) 100% son diseased  Q.115 First child of a normal male and female is albitic what are the chances of second shill to   |       |   |       |  |  |  |
| <ul> <li>Q.102 Contraction in gall bladder stimulated by: (1) CCK (2) PZ (3) Secretin (4) Enterogastrin (1) For fertilization and homosporos nature (2) Water should be filled in archegonium for fertilization (3) Water is necessary for movement of sperm (4) For dissemination of spores (3) Water is necessary for movement of sperm (4) For dissemination of spores (2) All normal offsprings (3) Langel of teeth is secreted by: (1) Ameloblast (2) Odontoblast (3) Osteoblast (4) Osteoclast (4) Osteoclast (5) Using the properties of the morphilia and colour-blindness on its one X-chromosome marries a normal male then what are the chances in their offsprings: (1) 50% son diseased and 50% normal (2) All normal offsprings (3) 100% daughters are carrier (4) 100% son diseased (5) All normal male and female is allowed as a post of second shill to the second shill to the</li></ul>  |       |   |       |  |  |  |
| (1) CCK (2) PZ (3) Secretin (4) Enterogastrin (3) Osteoblast (4) Osteoclast  Q.103 Water is essential for bryophyta: (1) For fertilization and homosporos nature (2) Water should be filled in archegonium for fertilization (3) Water is necessary for movement of sperm (4) For dissemination of spores (3) Water is necessary for movement of sperm (4) For dissemination of spores (1) 50% son diseased and 50% normal (2) All normal offsprings (3) 100% daughters are carrier (4) 100% son diseased (2) Aspergillus niger  Q.115 First child of a normal male and female is albiting what are the sharpess of second shill to  | 0.102 |   |       |  |  |  |
| (3) Secretin (4) Enterogastrin (3) Osteoblast (4) Osteoclast  Q.103 Water is essential for bryophyta: (1) For fertilization and homosporos nature (2) Water should be filled in archegonium for fertilization (3) Water is necessary for movement of sperm (4) For dissemination of spores (3) Water is necessary for movement of sperm (4) For dissemination of spores (5) Which of the following yields citric acid: (6) Penicillium citricum (7) Aspergillus niger (8) Osteoblast (9) Osteoclast (1) If a female having gene for haemophilia and colour-blindness on its one X-chromosome marries a normal male then what are the chances in their offsprings: (1) 50% son diseased and 50% normal (2) All normal offsprings (3) Osteoblast (4) Osteoclast (1) G.114 If a female having gene for haemophilia and colour-blindness on its one X-chromosome marries a normal male then what are the chances in their offsprings: (1) 50% son diseased and 50% normal (2) All normal offsprings (3) 100% daughters are carrier (4) 100% son diseased (5) First child of a normal male and female is allowed are the chances of second shill to   | Q.102 |   | Q.113 |  |  |  |
| Q.103 Water is essential for bryophyta:  (1) For fertilization and homosporos nature  (2) Water should be filled in archegonium for fertilization  (3) Water is necessary for movement of sperm  (4) For dissemination of spores  Q.104 Which of the following yields citric acid:  (1) Penicillium citricum  (2) Aspergillus niger  Q.114 If a female having gene for haemophilia and colour-blindness on its one X-chromosome marries a normal male then what are the chances in their offsprings:  (1) 50% son diseased and 50% normal  (2) All normal offsprings  (3) 100% daughters are carrier  (4) 100% son diseased  Q.115 First child of a normal male and female is allowed are the chances of second shild to   |       | * *   |       |  |  |  |
| (1) For fertilization and homosporos nature (2) Water should be filled in archegonium for fertilization (3) Water is necessary for movement of sperm (4) For dissemination of spores (2) All normal offsprings (3) Which of the following yields citric acid: (1) Penicillium citricum (2) Aspergillus niger  colour-blindness on its one X-chromosome marries a normal male then what are the chances in their offsprings: (1) 50% son diseased and 50% normal (2) All normal offsprings (3) 100% daughters are carrier (4) 100% son diseased (5) Aspergillus niger  Q.115 First child of a normal male and female is allowed are the chances of second shild to  | O 103 | `,  | 0.114 | ` /  |  |  |
| (2) Water should be filled in archegonium for fertilization  (3) Water is necessary for movement of sperm (4) For dissemination of spores  (2) All normal offsprings  (3) Which of the following yields citric acid: (1) Penicillium citricum (2) Aspergillus niger  (3) Water is necessary for movement of sperm (1) 50% son diseased and 50% normal (2) All normal offsprings (3) 100% daughters are carrier (4) 100% son diseased  (4) First child of a normal male and female is allowed are the chances of second shill to  | Q.103 |   | Q.114 |  |  |  |
| fertilization chances in their offsprings:  (3) Water is necessary for movement of sperm (4) For dissemination of spores (2) All normal offsprings (3) Which of the following yields citric acid: (1) Penicillium citricum (2) Aspergillus niger Q.115 First child of a normal male and female is allowed and the species of second shild to   |       |   |       |  |  |  |
| (4) For dissemination of spores  (2) All normal offsprings  (3) 100% daughters are carrier  (1) Penicillium citricum  (2) Aspergillus niger  (3) 100% son diseased  (4) 100% son diseased  (5) Aspergillus niger  (6) All normal offsprings  (7) First child of a normal male and female is all the substance of second shild to   |       | . , , , , , , , ,                                     |       |  |  |  |
| (4) For dissemination of spores (2) All normal offsprings (3) 100% daughters are carrier (1) Penicillium citricum (2) Aspergillus niger (2) Aspergillus niger (2) Aspergillus niger  |       | (3) Water is necessary for movement of sperm          |       | (1) 50% son diseased and 50% normal            |  |  |
| (1) Penicillium citricum (2) Aspergillus niger (3) Aspergillus niger (4) 100% son diseased (5) First child of a normal male and female is alkino what are the shorees of accord shild to   |       | -   |       | (2) All normal offsprings                      |  |  |
| (2) Aspergillus niger  Q.115 First child of a normal male and female is  | Q.104 | Which of the following yields citric acid:            |       | (3) 100% daughters are carrier                 |  |  |
| alking what are the shapes of ground shild to  |       |   |       | (4) 100% son diseased                          |  |  |
| (3) Saccharomyces albino, what are the chances of second child to  |       | (2) Aspergillus niger                                 | Q.115 | First child of a normal male and female is     |  |  |
| (3) Succidi Onivees  |       | (3) Saccharomyces                                     |       |  |  |  |
| be albino: (4) Azospirilium (1) 25% (2) 50% (3) 75% (4) 100%   |       | (4) Azospirilium                                      |       |  |  |  |
| Q.105 Saccharomyces cerevissae is used in the  | Q.105 | · · · · · · · · · · · · · · · · · · ·                 | 0.116 | (1) 25% (2) 50% (3) 75% (4) 100%               |  |  |
| called :   |       |   | Q.116 | Species separated by geographical barriers are |  |  |
| (1) Ethanol (2) Methanol (1) Allonatric (2) Sympatric  |       |   |       |  |  |  |
| (3) Acetic acid (4) Antibiotics (3) Sibling (4) Endemic  |       |   |       |  |  |  |
| Q.106 AA Bb Cc genotypes form now many types of  | Q.106 |   | 0.117 | •        |  |  |
| gametes. (1) Adoning (2) Guening   |       | _   | Z.111 | •  |  |  |
| (1) 4 (2) 8 (3) 2 (4) 6 (1) Adentifie (2) Guarinie (3) 3-cytosine (4) Bromouraeil  |       | (1) 4 (2) 8 (3) 2 (4) 6                               |       |  |  |  |

| Q.118 | Reason for trisomy in down's syndrome:  | Q.128          | Number of bones in hind limb of man:                                  |  |  |
|-------|---|----------------|---|--|--|
|       | (1) Non disjunction during sperm formation  |                | (1) 14 (2) 24   |  |  |
|       | (2) Non disjunction during egg formation  |                | (3) 26 (4) 30   |  |  |
|       | (3) Non disjunction at the time of egg or sperm formation                                   | Q.129          | Which of the following stimulates the secretion of gastric juice:     |  |  |
|       | (4) Addition of one extra chromosome during   |                | (1) Gastrin (2) Enterogasterone                                       |  |  |
|       | mitosis   |                | (3) Secretin (4) Hepatocrinin   |  |  |
| Q.119 | Multivalent chromosome form by:   | Q.130          | Age of Dryopithecous:   |  |  |
|       | (1) Inversion   |                | (1) 2.46 crore years (2) 2.46 lakh year                               |  |  |
|       | (2) Deletion  |                | (3) 1 lakh year (4) 1 crore year                                      |  |  |
|       | (3) Reciprocal translocation  | Q.131          | Which of the following statement is true:                             |  |  |
|       | (4) Point mutation  |                | (1) Homo erectus is direct ancestor of Homo                           |  |  |
| Q.120 | A cup have 10 <sup>5</sup> bacterial cells. Each bacterial cell                             |                | sapiens   |  |  |
|       | divides in 35 minutes. What shall be the number   |                | (2) Neanderthal man is direct ancestor of                             |  |  |
|       | of bacteria after 175 min.  |                | modern man  |  |  |
|       | $(1) 2 \times 10^5 \qquad (2) 5 \times 10^5$  |                | (3) Australopithecous is direct ancestor of                           |  |  |
|       | $(3) 32 \times 10^5$ $(4) 16 \times 10^5$   |                | modern man  |  |  |
| Q.121 | Deficiency of protein leads to:   |                | (4) Fossils of cromagnon man first found in                           |  |  |
|       | (1) Rickets (2) Scurvy  | 0.122          | Ethiopia  |  |  |
|       | (3) Kwashiorker (4) Carotenemia   | Q.132          | Which statement is wrong for <i>Cycas</i> :                           |  |  |
| Q.122 | Lactose composed of:  |                | (1) Xylem have vessels  |  |  |
|       | (1) Glucose + galactose   |                | (2) Female flowers well developed                                     |  |  |
|       | (2) Glucose + fructose  |                | (3) It has coralloid roots  |  |  |
|       | (3) Glucose + glucose   | 0 122          | (4) Circinate ptyxis  |  |  |
| 0.444 | (4) Glucose + mannose   | Q.133          | Evolution of heart from one to two, three and four chambered proves : |  |  |
| Q.123 | True statement for cellulose molecule:  |                | (1) Biogenetic law of Haeckel   |  |  |
|       | (1) β–1–4 linkage, unbranched   |                | (2) Lamarckism  |  |  |
|       | (2) p=1=4 linkage, branched   |                | (3) Hardy weinberg's law  |  |  |
|       | (3) $\alpha$ –1–4 linkage, branched   |                | (4) Neo Darwinism   |  |  |
|       | (4) $\beta$ –1–6 linkage, unbranched  | Q.134          | What is necessary for ripening of fruits :                            |  |  |
| Q.124 | True statement for <i>Ulothrix</i> :  | Q.10 I         | (1) 80% of ethylene (2) Abscissic acid                                |  |  |
|       | (1) Filamentous thallus and flagellated   |                | (3) 2, 4 D (4) A.M.O. – 16  |  |  |
|       | reproductive structures   | Q.135          | Which of the following induces morphogenesis                          |  |  |
|       | (2) Branched thallus  | <b>Q</b> 1-2-2 | in tissue culture :   |  |  |
|       | (3) Flagellated cells absent  |                | (1) Gibberline (2) Cytokinin  |  |  |
| 0.44. | (4) None of the above   |                | (3) IAA (4) Ethylene  |  |  |
| Q.125 | Which of the following exercise a control over  | Q.136          | Which weedicide can defoliate the complete                            |  |  |
|       | transcription:  |                | forest:   |  |  |
|       | <ul><li>(1) Operator</li><li>(2) Regulator</li><li>(3) Promoter</li><li>(4) Recon</li></ul> |                | (1) 2, 4-D (2) AMO–1618   |  |  |
| O 126 | Vitamin which induces maturation of R.B.C.:   |                | (3) MH (4) ABA  |  |  |
| Q.126 |   | Q.137          | Heterosis (Hybrid vigour) desirable in                                |  |  |
|       | (1) $B_1$ (2) $A$   |                | vegetatively propagated plants because:                               |  |  |
| O 127 | (3) B <sub>12</sub> (4) D   |                | (1) Heterosis is maintained for a longer duration                     |  |  |
| Q.127 | Lower jaw composed of: (1) Ponton: (2) Mayilla  |                | (2) These plants are easy to cultivate                                |  |  |
|       | (1) Dentary (2) Maxilla   |                | (3) Vegetative reproduction help to multiply fast                     |  |  |
|       | (3) Premaxilla (4) Palatine   |                | (4) It is due to homozygosity   |  |  |

| Q.138 | What is correct for st             | ages of Puccinia:            | Q.151 | In angiosperm, characters of flowers are used in  |                             |  |
|-------|------------------------------------|------------------------------|-------|---|-----------------------------|--|
|       | (1) Telia and aecia on wheat       |                              |       |   | classification because :    |  |
|       | (2) Telia and uredo stage on wheat |                              |       | (1) Characters of flowers are conservative  |                             |  |
|       | (3) Telia and aecia or             | _                            |       | (2) Flowers are large   |                             |  |
|       | (4) None                           |                              |       | (3) Flowers are attract   |                             |  |
| Q.139 | Typhoid caused by:                 |                              |       | (4) None of the above   |                             |  |
| Q.10> | (1) Rickettssiae (2) Chlamydia     |                              | Q.152 |   | alveoli takes place by:     |  |
|       | (3) Salmonella typhi               |                              |       | •   | (2) Passive transport       |  |
| Q.140 | Agent orange is:                   | (1) Wycobacteriam            |       | (3) Simple diffusion (4) None   |                             |  |
| Q.110 | (1) Biodegradable insecticide      |                              | Q.153 | Oral contraceptives contain:  |                             |  |
|       | • •                                | and 2, 4, 5 T) weedicide     |       | (1) Progesterone  | (2) LH                      |  |
|       | (3) Biofertilizer                  | ind 2, 4, 5 1) weedleide     | 0.154 | (3) Oxytocin  | (4) Steroles                |  |
|       | (4) Biopesticide                   |                              | Q.154 | In S-phase, DNA is replicated in a medium containing radioactive thymidine, radioactivity |                             |  |
| Q.141 | Largest sperm of :                 |                              |       | will be observed in :   |                             |  |
| Q.141 | (1) Pinus                          | (2) Cycas                    |       | (1) Euchromatin   | (2) Heterochromatin         |  |
|       | (3) Ephedra                        | (4) Sequoia                  |       | (3) Both  | (4) Nucleolus               |  |
| Q.142 | · · · =                            | es (pneumatic bones) occurs  | Q.155 | CO is harmful because :   |                             |  |
| Q.142 | in:                                | es (pheumatic bolies) occurs |       | (1) It forms stable compound with hemoglobin  |                             |  |
|       | (1) Mammals                        | (2) Reptiles                 |       | (2) It blocks mitosis   |                             |  |
|       | (3) Urodela                        | (4) Aves                     |       | (3) It is mutagenic   |                             |  |
| Q.143 | Non–symbiotic nitrog               | ` '                          |       | (4) It causes defoliation   |                             |  |
| Ç     | (1) Rhizobium                      | (2) Azospirilium             | Q.156 | Function of thyrocalcitonin:  |                             |  |
|       | (3) Azotobacter                    | (4) Nitrosomonas             |       | (1) To reduce the cal   |                             |  |
| Q.144 | * *                                | growth takes place by:       |       | (2) To increase the calcium level in blood  |                             |  |
| Q     | (1) Vascular cambium               |                              |       | <ul><li>(3) Oppose the action of thyroxine</li><li>(4) Maturation of gonads</li></ul>     |                             |  |
|       | (3) Phellem                        | (4) Phelloderm               | Q.157 | Osmotic potential and water potential of pure   |                             |  |
| Q.145 | · /                                | mosphere of earth then:      | Q.137 | water respectively:   |                             |  |
|       | (1) Temperature will               |                              |       | (1) 0 and 0   | (2) 0 and 1                 |  |
|       | (2) Temperature will               |                              |       | (3) 100 and 0   | (4) 100 and 100             |  |
|       | (3) Plants will flourish well      |                              | Q.158 | A normal leaf cell have how many genomes:   |                             |  |
|       | (4) No effect                      |                              |       | (1) 1 (2) 2   |                             |  |
| Q.146 | ` /                                | Capparis belongs to:         |       | (3) 3   | (4) 4                       |  |
|       | (1) Deciduous forest               | • •                          | Q.159 | 1   |                             |  |
|       | (3) Thorn forest                   | (4) Evergreen forest         |       | (1) Actin   | (2) Myosin                  |  |
| Q.147 | Animals of desert are              | •                            | 0.160 | (3) Troponin  | (4) Tropomysin              |  |
|       | (1) Arboreal                       | (2) Fossorial                | Q.160 | Unit of contraction: (1) Sarcomere  | (2) Muscle fiber            |  |
|       | (3) Crepuscular                    | (4) Nocturnal                |       | (3) Actin   | (4) None                    |  |
| Q.148 |                                    | only involuntary muscles:    | Q.161 | Oxidation of palmitic and yield :   |                             |  |
|       | (1) Urethra                        | (2) Irish                    | Q.101 | (1) 129 ATP   | (2) 132 ATP                 |  |
|       | (3) Heart muscles                  | (4) Blood vessels            |       | (3) 36 ATP  | (4) 76 ATP                  |  |
| Q.149 | Solenocytes occur in               | * *                          | Q.162 | Total amount of ener  | rgy trapped by green plants |  |
| -     | (1) Platyhelminthes                | (2) Arthropoda               |       | in food is called:  |                             |  |
|       | (3) Annelida                       | (4) Aschelminthes            |       | (1) Gross primary production  |                             |  |
| Q.150 | Which characteristic               | * *                          |       | (2) Net primary production  |                             |  |
| Ç     | (1) Metagenesis                    | (2) Morphogenesis            |       | (3) Standing crop   |                             |  |
|       | (3) Apolysis                       | (4) Pedogeny                 |       | (4) Standing state  |                             |  |
|       | (5) 1 ipoly sis                    | (1) I caogeny                |       |   |                             |  |

