

Biology

Class : XI going to XII

1. Zygote (2n) through mitotic division gives rise to Sprophyte(2n) and spore(n) is developed through meiotic division so its is haploid in nature and gives rise to Gametophyte generation.

Ans. (D)

2. Urochordata has open circulatory system. Rest of other characters are right for Urochordata.

Ans. (B)

3. Volkmann's canals are transverse in nature and it is engaged for transportation of materials from one Haversian system to other.

Ans. (C)

4. 0.9% of NaCl solution is isotonic in comparison to solution that present within the RBC thereby 0.2%. NaCl solution is hypotonic in nature so endosmosis taking place and as a result RBC will increase in volume.

Ans. (C)

5. Lysosomes maintained their acidic pH environment within it through H⁺ intake from the cytoplams. Such environment is helpful to act in lysis.

Ans. (A)

6. VAM or Vesicular Arbuscular Mycorrhiza it is a endosymbiotic association of fungi with the roots of higher plants. It is helpful for the plant to uptake neutrients from the soil.

Ans. (A)

7. Chemoiosomotic theory of ATP synthesis in chloroplast and mitochondria is based on proton gradient i.e. movement of H⁺ or proton from high to low gradient which in turn yeilds energy for the formation of ATP from ADP and cAMP.

Ans. (D)

8. Maize is the typical example of C₄ plant.

Ans. (A)

9. *Rocella tinctoria* is a lichenised species of fungus and yeilds royal purple colours which is used for making litmus paper.

Ans. (C)

10. Marey's law stating that the heart rate varies inversely with arterial blood pressure which states that blood pressure elevation reduces heart rate in a predictable manner, is the basis for the baroreceptor reflex.

Ans. (B)



11. Cyanide is a respiratory poison it inhibits electron transport from a_3 to O_2 or in terminal respiration as a result internal respiration is blocked and leads to fatal.

Ans. (A)

12. *Giardia* is called as grand old man of intestine but this pathogen is not transmitted by the mosquito.

Ans. (C)

13. Human kidneys are retroperitoneal in position and its ventral face is covered by the peritoneum membrane of abdominal cavity.

Ans. (A)

14. It is common that high viscosity of any fluid meets high resistance during its flow so it is correct. Polycythaemia is a disorder when the total W.B.C count is high but it has no effect in blood viscosity.

Ans. (B)

15. The absorption spectrum of chlorophyll'a' shows close correlation with its 'action spectrum' and this statement is true but chlorophyll'a' is not present in P.S. I and P.S. II simultaneously.

Ans. (C)