

Biology

Class : X going to XI

1. Irregular groove which externally demarcates Atria from Ventricles called coronary sulcus. The interventricular sulcus is a superficial groove or depression between the Ventricles. The interventricular septum separates the left Ventricle and the right Ventricle. The Atrioventricular septum separates the right atrium from the left Ventricle and is located inferior to the aortic root and immediately above the inferior pyramidal space.

Ans. (A)

2. The phenomenon of uptake of water at the expense of energy by the cell and usually against the osmotic gradient is known as active absorption. In case of positive absorption there is no need of expense of energy as it is taking place due to favour of osmotic gradient.

Ans. (B)

3. Cavities of brain are called Ventricles. There are four Ventricles in human brain.

Ans. (A)

4. Cut leaves remain green for longer time when dipped in Cytokinin as it has anti ageing properties or delay senescence. Cytokinin promote nutrients mobilization.

Ans. (A)

5. The growth of the pollen tube towards the ovule is due to chemotropism. Ovule induces to secrete boron and calcium compound. Movement due to induction of chemical is called chemotropism.

Ans. (B)

6. Pollination → Fertilization → embryo → Seedling, is the correct sequence regarding sexual reproduction in a flowering plant.

Ans. (C)

7. Ammended December 1 is celebrated as 'World AIDS Day'.

Ans. (D)

8. 'X' is a process which takes place in *plasmodium* under favourable condition as because lower plant and animal follows asexual reproduction when the condition is favourable one.

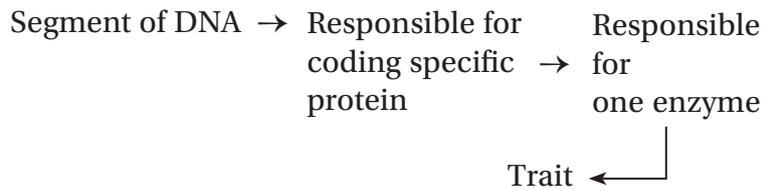
Ans. (C)

9. In every case one child receives 50% genes from father and rest 50% from his/her mother (Autosomal characters).

Ans. (B)



10. A segment of DNA providing information for a protein is called Gene. According to the functional definition of gene is



Ans. (D)

11. Due to iodine deficiency or hyperaction of the thyroid gland, goitre is developed and it is the swelling of thyroid gland not the thymus.

Ans. (C)

12. For sperm maturing low temperature is required and it is lower than that of normal body temperature.

Ans. (D)

13. Genes or traits are independently assorted from parents to offsprings thereby both the assertion and reason is correct.

Ans. (A)

14. Herbivores have well developed incisors which are helpful for cutting grass and carnivores have well developed canines which are helpful for cut and tear of muscle but 'Reason' is not supportive to the assertion.

Ans. (B)

15. The condition is just reverse i.e. efferent arteriole of glomerulus has lesser wider diameter than the afferent arteriole. Blood pressure increased due to this reason but not at the flowing time.

Ans. (D)