

Biology

Class : IX going to X

1. Hybridisation means crossing between genetically dissimilar plants, where cross between two Varieties of same genus is called intervarital hybridization. By introducing genes of desired character into a plant gives GMP or genetical modified plant. Cross between two species is called interspecific hybridization.

Ans. (A)

2. After 3 years the nail will remain in the same position as because due to division of Apical meristem daughter cells added downwardsly thereby the height of the plant will increase. So the initial length from the ground level to the preinserted nail remains in same after 3 years.

Ans. (C)

3. Two or more bones attached linearly by the Ligaments so in this case ligament break may be the possible reason.

Ans. (C)

4. Companion cells retain nucleus even after maturity but the other three lose their nucleus during the course of maturation.

Ans. (A)

5. Buccal smear (cheek cells) contains squamous epithelial tissue thereby its structure is flat, polygonal cells without intercellular spaces, prominent nucleus.

Ans. (B)

6. Pneumonia is caused by *Diplococcus pneumoniae* which is a bacterium and the disease is mainly transmitted through droplets.

Ans. (D)

7. Most of the disease can be prevented through taking proper caring in personal hygiene, domestic hygiene and also sanitation in the area of residence and work.

Ans. (D)

8. Fishes, Amphibians and most of the Reptiles are oviparous i.e. their development occurs within the egg and young embryo takes nourishment from the yolk.

Ans. (D)

9. Sporophyte (2n) is parasitic over Gametophyte (n) in Bryophyta. The main body is Gametophytic and the sporophyte mass develops within the Gametophytic body and it is totally dependent for food and shelter.

Ans. (A)



10. Chondroblast cells are present in cartilage whose matrix is soft thereby the 'p' segment having a chance to be elastic and flexible. On the other hand osteoblast cells are the component of bone and matrix of bone is hard in nature thereby the 'q' segment having a chance to be tough and inelastic.

Ans. (A)

11. Collenchyma is a living permanent tissue whose cell wall is unequally thickened so it can give mechanical strength to the plant body.

Ans. (A)

12. India has been declared polio free by the WHO on 27th March 2014 but Pulse Polio campaign is continued in every corner of the country in specific date so it is not isolated in some area.

Ans. (B)

13. There is no relation with body size and the size of cells and moreover human body has 37.2 trillion cells on average.

Ans. (D)

14. Kwashiorkor is a protein deficit disease of young children and if children are habituated in protein deficit diet or poor diet then Kwashiorkor will be the result.

Ans. (A)

15. Tendon is white fibrous connective tissue and ligament is a yellow fibrous connective tissue but there is no reason for whitish whether ligament is yellow or white.

Ans. (A)