



**Techno ACE**

## Model Question Paper

### Biology

Class: IX going to X

Time: 22.5 mints

F.M. 15 × 4 = 60

For every Correct answer examinee will be awarded +4 marks and  
for every wrong answer it will be – 1 mark

- Find out the correct sentence(s)
  - Hybridisation means crossing between genetically dissimilar plants.
  - Cross between two varieties is called as inter-specific hybridisation.
  - Introducing genes of desired character into a plant gives genetically modified crop.
  - Cross between plants of two species is called as inter varietal hybridisation.

(A) (i) and (iii) (B) (ii) and (iv)  
(C) (ii) and (iii) (D) (iii) and (iv)
- A nail is inserted in the trunk of a tree at a height of 1 metre from the ground level. After 3 years the nail will  

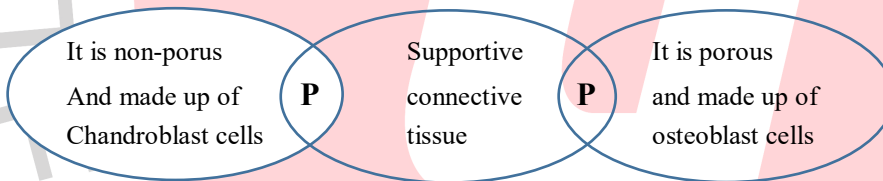
(A) Move downwards (B) Move upwards  
(C) Remain in the same position (D) Move side-ways
- A person met with an accident in which two long bones of hand were dislocated. Which among the following may be the possible reason?  

(A) Tendon break (B) Break of skeletal muscle  
(C) Ligament break (D) Areolar tissue break
- Which of the following does not lose nucleus at maturity?  

(A) Companion cells (B) Red Blood Cells  
(C) Vessel (D) Sieve tube
- Ashish on observing human buccal smear (cheek cells) under the microscope, found  

(A) Flat, rectangular cells with no intercellular spaces, prominent nucleus  
(B) Flat, polygonal cells without intercellular spaces, prominent nucleus  
(C) Rounded, polygonal cells with intercellular spaces, prominent nucleus  
(D) Flat, polygonal cells with intercellular spaces, prominent nucleus

6. Which disease is not transmitted by mosquitoes?
  - (A) Dengue
  - (B) Malaria
  - (C) Brain fever or encephalitis
  - (D) Pneumonia
7. Most of the disease can be prevented by
  - (A) Personal hygiene
  - (B) Domestic hygiene
  - (C) Sanitation in the area of residence and work
  - (D) All the above
8. Find out the false statement
  - (A) Aves are warm blooded, egg laying and have four chambered heart.
  - (B) Aves have feather covered body, fore limbs are modified as wings and breath through lungs.
  - (C) Most of the mammals are Viviparous.
  - (D) Fishes, Amphibians and Reptiles are Viviparous.
9. Sporophyte is parasitic over Gametophyte in
  - (A) Bryophytes
  - (B) Pteridophytes
  - (C) Gymnosperms
  - (D) Flowering plant
10. Refer to the given Venn diagram and select correct statement regarding P and Q.



- (A) P could be elastic and flexible whereas Q could be tough and inelastic.
- (B) Matrix of P is entirely inorganic whereas that of Q is entirely organic.
- (C) Growth in P is bidirectional whereas in Q it is unidirectional.
- (D) P could have rich blood supply whereas Q do not have blood supply.

For questions No. 11 to No. 15, given below, two statements are given one labelled assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes A, B, C and D as given below:

- (A) Both assertion (A) and reason (R) are true and reason is correct explanation of assertion.
  - (B) Both assertion (A) and reason (R) are true but reason is not the correct explanation of the assertion.
  - (C) Assertion (A) is true but reason (R) is false.
  - (D) Assertion (A) is false but reason (R) is true.
11. Assertion: Collenchyma has uneven wall thickenings  
Reason: It is living mechanical tissue
  12. Assertion: India has been declared Polio free  
Reason: Pulse Polio campaign is continued in some parts

13. Assertion: Larger the body size, the larger is the size of cells  
Reason: Human body has 100 trillion cells
14. Assertion: Kwashiorkor is a non-infectious disease of young children  
Reason: It is related to deficient and poor diet
15. Assertion: Tendon is a white fibrous connective tissue  
Reason: Ligament is a yellow fibrous connective tissue

