

Competitive Exams: Botany MCQs (Practice-Test 50 of 104)

1. Abscises acid is synthesized in

- a. Chloroplasts
- b. Endoplasmic reticulum
- c. Ribosome's
- d. Peroxisomes

2. Consider the following statements:

- a. There are as many types of tRNA as there are codons that specify amino acids
- b. Stop codons do not have tRNAs
- c. All tRNAs have an amino acid attachment site at the 3' end consisting of the sequence CCA

Which of the statements given above is/are correct?

- a. 1 and 2
- b. 1, 2 and 3
- c. 2 and 3
- d. 3 only

3. Which one of the following conditions favors the cross pollination in papaya?

- a. Dichogamy
- b. Herkogarny
- c. Self-sterility
- d. Unisexuality

4. Consider the following fruit crops:

- a. Musa
- b. Malus

- c. Citrus
- d. Mangifera

In which of the above nuclear polyembryony is known to occur commonly?

- a. 1, 2 and 3
- b. 3 only
- c. 3 and 4
- d. 1, 2 and 4

5. Vegetative propagation in Chrysanthemum takes place by the help of

- a. Suckers
- b. Stolons
- c. Offsets
- d. Runners

6. Which one of the following is an example of the fruit type Achene?

- a. Cherry
- b. Pineapple
- c. Mustard
- d. Sunflower

7. Lectin of pollen is involved in

- a. Parthenogenesis
- b. Pollen sterility
- c. Pollen allergy
- d. Self-incompatibility

8. Saprophytic self-incompatibility is common in

- a. Asteraceae
- b. Liliaceae
- c. Poaceae

d. Solanaceae

9. Per sperm in the seed is a

- a. Persistent endosperm
- b. Persistent nucleolus
- c. Persistent hypostases
- d. Persistent episteme

10. Plant breeders are interested in apomixes because it

- a. Improves seed-set
- b. Improves seed-set
- c. Yields clonal progeny
- d. Shortens the life cycle

11. Match List I (Scientists) with List II (Work related to photosynthesis) and select the correct answer using the codes given below the lists:

List-I

List-II

- | | |
|-----------|--|
| a. Calvin | a. Showed that organic matter was derived from carbon dioxide and water used in photosynthesis |
| b. Hill | b. Pointed out that the product of photosynthesis was starch |
| c. Liebig | c. Demonstrated the photolysis of water by isolated chloroplasts |
| d. Sachs | d. Traced the path of carbon in photosynthesis |

A B C D

- a. 4 1 3 2
- b. 2 1 3 4
- c. 4 3 1 2
- d. 2 3 1 4

12. In which one of the following geological periods did the first land plants appear?

- a. Precambrian
- b. Permian
- c. Silurian
- d. Carboniferous

13. What is the evolutionary process responsible for divergence and convergence of characters in closely related species?

- a. Mutation
- b. Character suppression
- c. Isolation
- d. Character displacement

14. Match List I (Plants) with List II (Families) and select the correct answer using the codes given below the lists:

List-I

List-II

- | | |
|------------------|-----------------|
| a. Custard apple | a. Annonaceae |
| b. Guava | b. Bromeliaceae |
| c. Jack fruit | c. Moraceae |
| d. Pineapple | d. Myrtaceae |

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A B C D

a. 2 3 4 1

b. 1 4 3 2

c. 2 4 3 1

d. 1 3 4 2

15. Included phloem can be defined as

- a. Phloem present within the secondary xylem
- b. Phloem present within the primary xylem
- c. Phloem present within the pith region
- d. Phloem present within the cortical region