

Examrace

Competitive Exams: Botany MCQs (Practice_Test 25 of 104)

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1. In evolutionary history, in which one of the following periods did the flowering plants make their first appearance?
 - a. Cretaceous of Mesozoic era
 - b. Pleocene of Cenozoic era
 - c. Devonian of Paleozoic
 - d. Permian of Paleozoic era
2. Which one of the following classes of compounds is most useful in comparative studies for determining the ancestral relationships?
 - a. Amino acids
 - b. Nucleotide sequences
 - c. Nucleic acids
 - d. Proteins
3. Consider the following statements: Instant speciation is possible due to
 - a. Mutation
 - b. Hybridization
 - c. Recombination
 - d. Reciprocal translocation
 - e. Polyploidy

Which of these statements is/are correct?

- a. 1,2 and 3
- b. 3 and 4
- c. 5 only
- d. 2 and 5

4. Plant tissues synthesize ethylene in response to wounding and this promotes the formation of
- Vessel elements
 - Tracheids
 - Periderms
 - Sieve elements
5. Consider the following statements: Lateral roots originate
- Endogenously
 - From pericycle cells
 - Exogenously
 - From endodermal cells

Which of these statements are correct?

- 1 and 2
 - 3 and 4
 - 1 and 4
 - 2 and 3
6. Which of the following contiguous cells lack middle lamella?
- All epidermal cells
 - Guard and subsidiary cells
 - Subsidiary cells
 - Guard cells
7. A concentric amphivasal vascular bundle is one which is characterized by
- Centrally located phloem surrounded by xylem
 - Centrally located xylem surrounded by phloem
 - Xylem flanked by phloem on the interior and exterior sides only
 - Phloem flanked by xylem on the interior and exterior sides only
8. Consider the following statements with reference to serotaxonomy:
- The antigen components of plants represent characteristics of taxonomic importance.
 - Both structural and reserve proteins can be used for the classification of plants.

c. Proteins of the same group from different organs are always comparable.

Which of these statements are correct?

a. 1,2 and 3

b. 1 and 2

c. 2 and 3

d. 1 and 3

9. Taxonomic significance of allopolyploids is because

a. They show gigantism due to increase in cell size

b. They exhibit increased physiological vigour

c. Chromosomes tend to pair normally in them as in diploids

d. Allopolyploids is an infra-specific phenomenon

10. Which one of the following families is immediately identified by the presence of a pseudo-embryo sac?

a. Prodostemaceae

b. Poaceae

c. Boraginaceae

d. Asteraceae

11. Consider the following floral characteristics:

a. Petals are five and free

b. Stamens are indefinite and fused in one group

c. Gycoeciurn is bicarpellary

Which of these are the characteristics of the family Malvaceae?

a. 1,2 and 3

b. 1 and 2

c. 1 and 3

d. 2 and 3

12. Consider the following floral characteristics:

a. Spirally arranged floral parts on the torus

b. Inferior ovary

c. Actinomorphic corolla

d. Stamens many

According to Hutchinson's concept, primitive angiospermous flowers are characterized by

a. 1,2 and 3

b. 4 only

c. 1 and 2

d. 1,3 and 4

13. Which one of the following clusters of families is identified due to the presence of zygomorphic flowers and bicarpellary gynoecium's?

a. Cuscutaceae, Solanaceae, Verbenaceae

b. Malvaceae, Tiliaceae, Cucurbitaceae

c. Boraginaceae, Convolvulaceae, Solariaceae

d. Acanthaceae, Fumariaceae, Lamiaceae

14. In a binomial system of nomenclature when there are three words used for a species name

a. Two words of the specific epithet are joined/hyphen

b. First word of the specific epithet should be eliminated

c. Whole specific epithet is to be rejected

d. Another substitute specific epithet is to be chosen

15. With reference to botanical nomenclature, in type method

a. Type is for the name and not for the species

b. Type is for the species and not for the name

c. Type is for populations not either for names or species

d. Type is for the genus