

Competitive Exams: Botany MCQs (Practice-Test 5 of 104)

1. • **Assertion (A):** Auxins are found in large amounts in apical meristem of shoot.
• **Reason (R):** The shoot is exposed to sunlight.
 - a. Both A and R are true and R is the correct explanation of A
 - b. Both A and R are true but R is NOT the correct explanation of A
 - c. A is true but R is false
 - d. A is false but R is true

2. Stromatolites in the rocks are good indicators of
 - a. Cyanobacteria
 - b. Chlorophyceae
 - c. Prion
 - d. Lichen

3. Cacti and Euphorbia are not easily distinguished because they grow under similar conditions of xenomorphic environment and show identical morphological adaptations. Such a type of parallel evolution is referred to as
 - a. Divergent evolution
 - b. Convergent evolution
 - c. Retrogressive evolution
 - d. Progressive evolution

4. Given below are the processes of speciation:
 - a. Reproductive isolation
 - b. Geographical isolation
 - c. Homogenous population

The correct sequence of these processes of speciation is

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

5. Branched hair-like sclereids are called

- a. Trichosclereids
- b. Fibriform sclereids
- c. Brachysclereids
- d. Polymorphic sclereids

6. Wood with vessels of equal diameters uniformly distributed through a growth ring is referred to as

- a. Diffuse porous wood
- b. Ring porous wood
- c. Storied wood
- d. No storied wood

7. Match List I (Types of tissues) with List II (Examples of plants) and select the correct answer:

List-I

- a. Multiple epidermis
- b. Bulliform cells
- c. Articulated laticifers
- d. Biocollateral vascular bundles

List-II

- a. Oryza sp.
- b. Ficus sp.
- c. Cucurbita sp.
- d. Carica sp.

A B C D

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

8. According to the concept of waiting meristem, the active region of shoot apex is

- a. Anneau initial
- b. Meristeme medullaire
- c. Promeristeme sporogene
- d. Promeristeme receptaculaire

9. The genus *Trapa* has been excluded from the family Onagraceae and is given the status of a family on the basis of data obtained from

- a. Anatomy
- b. Embryology
- c. Palynotogys
- d. Cytology

10. Which one of the following is NOT permissible according to the rules of botanical nomenclature?

- a. Synonym
- b. Tautonym
- c. Autonym
- d. Basionym

11. Which one of the following is the most effect tool in species delimitation within the species complex?

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- a. Cytogenesis
- b. Photochemistry
- c. RNA characterization
- d. DNA finger printing

12. Which one of the following ranunculaceous genera was raised to the level of a family on the basis of serological and embryological characters?

- a. Eranthis
- b. Adonis
- c. Paeonia
- d. Caltha

13. Match List I with List II and select the correct answer:

List-I

List-II

- | | |
|-------------------|------------------|
| a. Fairy rings | a. Chlamydomonas |
| b. Symbiosis | b. Saprolegnia |
| c. Salmon disease | c. Agaricus |
| d. Water blooms | d. Cyanobacteria |

A B C D

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

14. Consider the following pairs:

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- a. Sporogonium opening irregularly—Marchantia
- b. Sporogonium splitting down into two halves—Scapania
- c. Sporogonium with a bulbous foot—Anthoceros
- d. Sporogonium without a long stalk-like seta—Sphagnum

Which of the above pairs are correctly matched?

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

15. The additional spermatozoids in *Micrococcus* are produced due to mitosis in

- a. Tube cell
- b. Sperms
- c. Stalk cell
- d. Body cell