

Competitive Exams: Botany MCQs (Practice-Test 17 of 104)

1. Which one of the following statements is correct?
 - a. Cyan bacteria are abundant in both fresh and salt water
 - b. Some cyan bacteria have flagella and chloroplasts
 - c. Gram positive bacteria have only lip polysaccharides in their cell wall
 - d. Archaeobacteria have walls which contain only peptidoglycan

2. Among the following plants, the fibers of which one has least amount of cellulose?
 - a. Cotton
 - b. Flax
 - c. Hemp
 - d. Jute

3. The egg secretes pherohormone in
 - a. Chara
 - b. Chlamydomonas
 - c. Fucus
 - d. Polysiphonia

4. Which one of the following statements is correct?
 - a. Leaves of all conifers are perennial
 - b. All vascular plants have Sieve Tube Members
 - c. The red and edible flesh of strawberry is the carpel tissue
 - d. Chitin is formed by the polymerization of amino sugars

5. According to histogen theory, the meristematic zone responsible for the development of pericucle is
 - a. Periblem

- b. Plerome
- c. Dermatogen
- d. Calyptrogen

6. The floral formula represents

- a. *Solanum nigrum*
- b. *Hibiscus rosasinensis*
- c. *Citrus aurantium*
- d. *Brassicfa campestris*

7. The water cavity in the xylem of maize stem is

- a. Schizogenously formed from protoxylem
- b. Lysigenously formed from protoxylem
- c. Schizogenously formed from metaxylem
- d. Lysigneously formed from metaxylem

8. The foral diagram given below represents

- a. Liliaceae (*Allium cepa*)
- b. Lamiaceae (Labiatae) (*Ocimum basilicum*)
- c. Euphorbiaceae (*Phyllanthus niruri*)
- d. Amaryllidaceae (*Crinum asiaticum*)

9. Consider the following statements:

- a. Epidermis and cortex of monocot root are similar to those of dicot root.
- b. Hypodermis of dicot stem consists of sclerenchymatous cells.
- c. The cells of bundle sheath in maize leaf serve as temporary storage cells.
- d. The dicot leaf is hypostomatic.

Which of these statements are correct?

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

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

10. Which one of the following statements regarding bryophytes is not correct?

- a. All mosses are oogamous
- b. Liverworts are heterosporous
- c. Hornwort chloroplasts have pyramids
- d. Hornworts form symbiosis with

Nostoc

11. A nitrogen fixing prokaryote showing symbiotic association with Azolla belongs to the genus

- a. Anabaena
- b. Azotobacter
- c. Nostoc
- d. Rhizobium

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

List-I (Plants)

List-II (Type)

- | | |
|---------------|---------------|
| a. Acanthus | a. Xerophyte |
| b. Capparis | b. Saprophyte |
| c. Dendrobium | c. Halophyte |
| d. Monotropa | d. Epiphyte |

A B C D

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

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

List-I (Substance)

List-II (Plant part as source)

- | | |
|---------------|------------------|
| a. Cocaine | a. Bark |
| b. Proserpine | b. Leaf |
| c. Ephedrine | c. Root |
| d. Quinine | d. Stem and leaf |

A B C D

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

14. The glyoxysomes in a plant cell

- a. Detoxify the hydrogen peroxide produced in the cell
- b. Store the waste products released in the carbohydrate metabolism

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- c. Break down the fatty acids during the respiration of lipid
- d. Convert glycolic acid into glycine

15. Which one of the following tissues is concerned primarily with conduction of nutrients in a moss capsule?

- a. Hypophysis
- b. Elaters
- c. Capsule wall
- d. Columella