

## Competitive Exams: Botany MCQs (Practice-Test 26 of 104)

1. When Acetabularia is in uninucleat condition, then it is in
  - a. Vegetative phase
  - b. Reproductive phase
  - c. Cyst formation stage
  - d. Gamete formation stage
2. In the saprophyte of Bryales, archesporium originates from
  - a. Endothecium
  - b. Endothelium
  - c. Amphithecium
  - d. Perithecium
3. Which one of the following algae is reported to pro duce an antibiotic?
  - a. Nostoc
  - b. Ectocarpus
  - c. Chlamydomonas
  - d. Chlorella
4. Match List I with List II and select the correct answer:

List-I (Name of the plant)

List-II (Name of stage in the life cycle)

a. Chlamydomonas

a. Plakea stage

b. Valvax

b. Chantransia stage

c. Vaucheria

c. Palmell stage

d. Batrachospermum

d. Gongrosira stage

**A B C D**

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

5. In *Pinus*, the haploid structures are

- a. Megaspore, endosperm and embryo
- b. Microspore, megaspore and endosperm
- c. Megaspore, integument and root
- d. Microspore, leaf and endosperm

6. *Albugo* resembles *Vaucheria* in

- a. Mode of its nutrition
- b. Reserve food material
- c. Coenocytes thallus and development of sex organs
- d. Cell wall composition and similarity of sex organs

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

List-I (Plants)

- a. *Ophioglossum*
- b. *Notothylas*
- c. *Sphagnum*
- d. *Rhynia*

List-II (Plant groups)

- a. Musci
- b. Filicineae
- c. Anthocerotae
- d. Psilophytineae
- e. Hepaticae

**A B C D**

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a. 1 2 5 3

b. 2 3 1 4

c. 2 3 5 4

d. 4 2 1 3

8. An alga in which five sterile vegetative sheaths cover the oogonium is

- a. Colochaete
- b. Fucus
- c. Chara
- d. Volvox

9. Cones with out sporophylls are found in

- a. Lycopodium
- b. Psilotum
- c. Rhynia
- d. Equisetum

10. Consider the following processes:

- a. O<sub>2</sub> evolution
- b. CO<sub>2</sub> fixation
- c. NADPH formation
- d. Chlorophyll biosynthesis

Which of these do not occur in thylakoids?

- a. 1 and 2

- b. 2 and 3
- c. 3 and 4
- d. 2 and 4

11. Consider the following compounds:

- a. Phosphoenol pyruvate
- b. Malic acid
- c. Pyruvic acid
- d. Oxaloacetic acid

What is the correct sequence of these intermediate compounds as they form in C<sub>4</sub>-dicarboxylic acid pathway following the PEP-carboxylation reaction?

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

12. Consider the following:

- a. Cytochrome b<sub>6</sub>
- b. Cytochrome II f
- c. Plastocynin
- d. Plastoquinone

What is the correct sequence of these in the photo-induced electron carriers between PS 1 to PS 2 in photosynthesis?

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

13. The total requirement of ATP and NADPH for each molecule of CO<sub>2</sub> fixed and reduced in photosynthesis in the Clvin cycle is

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- a. 2 ATP and 2 NADPH
- b. 2 ATP and 3 NADPH
- c. 3 ATP and 2 NADPH
- d. 4 ATP and 3 NADPH

14. The number of manganese atoms in the oxygen evolving complex (OEC) in photosynthesis is

- a. 2
- b. 4
- c. 5
- d. 6

15. C<sub>4</sub> plants are divided into three subgroups based on

- a. Decarboxylation reactions
- b. Oxidation reactions
- c. Reduction reactions
- d. Energy reactions