

Competitive Exams: Botany MCQs (Practice-Test 52 of 104)

1. Which one of the following gymnosperms is devoid of arch gonium?
 - a. Pinus
 - b. Ginkgo
 - c. Genetum
 - d. Cycas
2. Which one of the bacteria is not connected with nitrogen fixation?
 - a. Azotobacter
 - b. Nitrosomonas
 - c. Clostridium
 - d. Rhizobium
3. Consider the following statements:
 - a. Anthoceros has isomorphic alternation of generations and saprophyte is green
 - b. Riccia has heteromorphy alternation of generations and its saprophyte is non-green

Which of the statements given above is/are correct?

- a. 1 only
 - b. 2 only
 - c. Both 1 and 2
 - d. Neither 1 nor 2
4. Which one of the following pairs of plants bears sporangia with two different types of spores?
 - a. Selaginella and Equisetum
 - b. Equisetum and Pteridium
 - c. Selaginella and Marselia

d. Pteridium and Marselia

5. In Autocross, the sporangium tissue develops from

- a. Apothecium's
- b. Endothecium's
- c. Amphithecium
- d. Perithecium

6. In Eusporangiate ferns, the sporangium is derived from a group of

- a. Apical meristems
- b. Lateral merstems
- c. Intercalary cells
- d. Surface cells of sporophyll

7. Consider the following characteristic features of plants:

- a. Naked ovules
- b. Double fertilization
- c. Absence of tracheids
- d. Haploid endosperm

Which of the above are present in the case of gymnosperms?

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

8. In photosynthesis, during the operation of PS II, the cited P680 is rapidly photooxidised as it passes an electron

- a. Carotene
- b. Ferridoxin
- c. Phaeophytin
- d. Phycoerythrin

9. Consider the following statements:

- a. PEP Carboxylase has a high specificity for carbon dioxide and it never picks up oxygen
- b. Kranz anatomy and C₄ metabolism are found in only monocots of hot climates and not in dicots

Which of the statements given above is/are correct?

- a. 1 only
- b. 2 only
- c. Both 1 and 2
- d. Neither 1 nor 2

10. Uncouplers such as 2, 4-Dinitrophenol have no effect on

- a. Oxidative phosphorylation
- b. Photophosphorylation
- c. Substrate-level phosphorylation
- d. Respiratory-chain phosphorylation

11. With reference to mass selection of crop plants, consider the following statements:

- a. Mass selection has been more commonly used for the improvement of cross-pollinated crops than the single plant selection
- b. The purpose of mass selection is to increase the frequency of superior genotypes in the population
- c. This method of breeding has been very effective in improving characters governed by many genes

Which of the statements given above are correct?

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

12. In the mitochondrial genome of *Neurospora crassa* the genetic code UGA means

- a. Tryptophan
- b. Methiorne
- c. Isoleucine
- d. Termination/stop codon

13. A shuttle vector is defined as

- a. A plasmid capable of replicating in one orgasm
- b. A plasmid capable of accepting only large DNA inserts
- c. A plasmid incapable of replicating in cells
- d. A plasmid capable of replicating in two different organisms

14. The replication of a single stranded viral RNA is brought about by

- a. Reverse transcriptase
- b. RNA polymerase
- c. DNA ligase
- d. DNA primer

15. Three point test cross is used for

- a. Gene transfer
- b. Gene regulation
- c. Gene conversion
- d. Gene mapping