

Examrace

Competitive Exams: Botany MCQs (Practice_Test 52 of 104)

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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
- Apothecium's
 - Endothecium's
 - Amphithecium
 - Perithecium
6. In Eusporangiate ferns, the sporangium is derived from a group of
- Apical meristems
 - Lateral meristems
 - Intercalary cells
 - Surface cells of sporophyll
7. Consider the following characteristic features of plants:
- Naked ovules
 - Double fertilization
 - Absence of tracheids
 - Haploid endosperm

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

- 1 and 4
 - 1 and 3
 - 1 and 2
 - 2 and 4
8. In photosynthesis, during the operation of PS II, the cited P680 is rapidly photooxidised as it passes an electron
- Carotene
 - Ferridoxin
 - Phaeophytin
 - Phycocerythrin
9. Consider the following statements:
- 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. Methionine
- c. Isoleucine
- d. Termination/stop codon
13. A shuttle vector is defined as
- a. A plasmid capable of replicating in one organism

- 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

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