

## Competitive Exams: Botany MCQs (Practice-Test 66 of 104)

1. Which one of the following is endogenously produced?
  - a. Ascospores
  - b. Basidiospores
  - c. Conidiospores
  - d. Teleutospores
  
2. Resin canals in Pinus are formed
  - a. By the separation of secretory cells
  - b. By the destruction of secretory cells
  - c. Partly by separation and partly by destruction of secretory cells
  - d. By large intercellular spaces of the cortex of the stem
  
3. In which one of the following bryophytes does archesporium arise from endothelium?
  - a. Marchantia
  - b. Funaria
  - c. Sphagnum
  - d. Anthoceros
  
4. • **Assertion (A):** Life cycle of Chlamydomonas is haplobiontic.  
• **Reason (R):** In the life cycle of Chlamydomonas haploid phase predominates over the diploid phase.
  - 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 a correct explanation of A
  - c. A is true but R is false
  - d. A is false but R is true
  
5. • **Assertion (A):** Virus is an obligate parasite.

- **Reason (R):** Virus can multiply only inside living cells.
  - 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 a correct explanation of A
  - c. A is true but R is false
  - d. A is false but R is true
  
- 6. • **Assertion (A):** Stellar type present in Asteroxylon is actinostele.
  - **Reason (R):** When central xylem core is star-shaped, it is called actinostele.
    - 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 a correct explanation of A
    - c. A is true but R is false
    - d. A is false but R is true
  
- 7. • **Assertion (A):** Tagging of genes is more reliable when the genetic distance between the marker and the target gene is small.
  - **Reason (R):** The probability of a crossover event separating a marker from the locus governing the trait diminishes with the decreasing distance.
  
- 8. • **Assertion (A):** Photosynthetic bacteria do not evolve Oxygen during photosynthesis.
  - **Reason (R):** Photosynthetic bacteria are obligate o facultative anaerobes.
    - 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 a correct explanation of A
    - c. A is true but R is false
    - d. A is false but R is true
  
- 9. • **Assertion (A):** Protein synthesis is a slow process requiring about a day to form one polypeptide from amino acid.
  - **Reason (R):** Protein synthesis requires the involvement of several components such as messenger RNA, transfer RNA amino acids, catalytic proteins, cofactors and ribosome's.
    - 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 a correct explanation of A
  - c. A is true but R is false
  - d. A is false but R is true
10. • **Assertion (A):** Carbon-14 is used in photosynthetic studie.
- **Reason (R):** Carbon-14 has a short half life.
- 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 a correct explanation of A
  - c. A is true but R is false
  - d. A is false but R is true
11. • **Assertion (A):** The endogenous level of plant hormones is measured by bioassay technique.
- **Reason (R):** The concentration of hormones in plants is so low that it is not possible to chemically estimate the level
- 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 a correct explanation of A
  - c. A is true but R is false
  - d. A is false but R is true
12. • **Assertion (A):** Many dormant seeds can be made to germinate by increasing the partial pressure of oxygen.
- **Reason (R):** Under ambient atmospheric conditions the testa of gashard seeds is only sparingly permeable to oxygen
- 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 a correct explanation of A
  - c. A is true but R is false
  - d. A is false but R is true
13. • **Assertion (A):** The saprophytic type of self incompatibility is frequently characterized by reciprocal differences in the compatibility reaction.

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- **Reason (R):** Saprophytic incompatibility reaction is imparted to the pollen by the plant upon which the pollen is borne
    - 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 a correct explanation of A
    - c. A is true but R is false
    - d. A is false but R is true
14. • **Assertion (A):** *Claviceps purpurea* produces alkaloids of pharmaceutical value when grown naturally but not in artificial media.
- **Reason (R):** In artificial media, the photoperiod is limiting.
    - 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 a correct explanation of A
    - c. A is true but R is false
    - d. A is false but R is true
15. Morph species is
- a. A phylogenetically-linked biotype
  - b. Morphological features of a species adapted to specific ecological niche
  - c. A floristic unit on which identification of a species may depend
  - d. A fossil species classified on the basis of morphological features