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Competitive Exams: Botany MCQs (Practice_Test 56 of 104)

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1. The micro-populations within a species population showing genetically fixed morphological variations in response to ecological factors are called
 - a. Ecotypes
 - b. Ecads
 - c. Ecophenes
 - d. Syntypes
2. Which one of the following groups of algae shows characteristic photo chromatic adaptation?
 - a. Brown algae
 - b. Green algae
 - c. Yellow-green algae
 - d. Blue-green algae
3. Which one of the following algae is typically terrestrial in nature?
 - a. Lyngbya
 - b. Fritschiella
 - c. Volvox
 - d. Polysiphonia
4. Which one of the following species is obtained from per carp of schizocarp fruit marked with riles, grooves and bristles?
 - a. Piper longum
 - b. Cuminum cyminum
 - c. Trigonells foenum-graecum

- d. *Elettaria cardamomum*
5. Clove (*Syzygium aromaticum*) is the
- Thin pod like capsules
 - Elongated light brown fruits
 - Dried unopened flower buds
 - Dried stigmas and top of styles
6. Which one of the following is the best method of estimating productivity of a submerged aquatic plant?
- Harvest method
 - Chlorophyll content estimation
 - Dark and light bottle method
 - Leaf area index measurement
7. ◦ **Assertion (A)** : The ratio of Net Primary Production to Gross Primary Production in a mature rain forest on yearly basis tends to be very low in comparison to that of a crop-field.
- **Reason (R)** : Communities with large baronesses or standing crops require so much autotrophic respiration for maintenance
- Both A and R are individually true and R is the correct explanation of A
 - Both A and R are individually true but is not the correct explanation of A
 - A is true but R is false
 - A is false but R is true
8. ◦ **Assertion (A)** : Necrotrophic pathogens enter plant cells by degrading plant cell wall polymer.
- **Reason (R)** : Necrotrophic pathogens produce a wide range of extra-cellular enzymes.
- Both A and R are individually true and R is the correct explanation of A
 - Both A and R are individually true but is not the correct explanation of A
 - A is true but R is false
 - A is false but R is true
9. ◦ **Assertion (A)** : A variety developed through pure line selection is characterized by complete phenotypic uniformity under varying environments.

- **Reason (R)** : A pure line variety is developed by self-pollination from a single homozygous plant.
 - a. Both A and R are individually true and R is the correct explanation of A
 - b. Both A and R are individually true but is not the correct explanation of A
 - c. A is true but R is false
 - d. A is false but R is true
- 10. ◦ **Assertion (A)** : Once plant cells have differentiated into specialized structures they cannot dedifferentiate.
 - **Reason (R)** : Upon differentiation cells become complex in structure and specialized in function.
 - a. Both A and R are individually true and R is the correct explanation of A
 - b. Both A and R are individually true but is not the correct explanation of A
 - c. A is true but R is false
 - d. A is false but R is true
- 11. ◦ **Assertion (A)** : DNA is found in the cytoplasm of prokaryotes.
 - **Reason (R)** : DNA is not enclosed by nuclear membrane in a prokaryotic cell.
 - a. Both A and R are individually true and R is the correct explanation of A
 - b. Both A and R are individually true but is not the correct explanation of A
 - c. A is true but R is false
 - d. A is false but R is true
- 12. ◦ **Assertion (A)** : Anther culture is a popular technique to produce haploids for breeding programmes.
 - **Reason (R)** : Haploid plants are highly fertile.
 - a. Both A and R are individually true and R is the correct explanation of A
 - b. Both A and R are individually true but is not the correct explanation of A
 - c. A is true but R is false
 - d. A is false but R is true
- 13. ◦ **Assertion (A)** : Nearly all studies of phytochrome have been made with pigments purified from etiolated seedlings.
 - **Reason (R)** : Etiolated seedlings have long internodes.

- a. Both A and R are individually true and R is the correct explanation of A
 - b. Both A and R are individually true but is not the correct explanation of A
 - c. A is true but R is false
 - d. A is false but R is true
14. ◦ **Assertion (A)** : The replication of DNA starts with the formation of RNA primer of 8 – 10 nucleotides at a specific site on template strand of DN.
- **Reason (R)** : Okazaki fragments of DNA are formed by the enzyme DNA polymerase (s) .
 - a. Both A and R are individually true and R is the correct explanation of A
 - b. Both A and R are individually true but is not the correct explanation of A
 - c. A is true but R is false
 - d. A is false but R is true
15. ◦ **Assertion (A)** : In plants tracheids are the most efficient means of water conduction.
- **Reason (R)** : Tracheids have bordered pits.
 - a. Both A and R are individually true and R is the correct explanation of A
 - b. Both A and R are individually true but is not the correct explanation of A
 - c. A is true but R is false
 - d. A is false but R is true