

Examrace

Competitive Exams: Botany MCQs (Practice_Test 96 of 104)

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1. Consider the following statements regarding the introduction of plant materials and seeds.
 - a. Plant materials and seeds are always introduced from developed countries into developing/less developed countries.
 - b. The import of living plant materials must be accompanied by a certificate of health to prevent introduction of new diseases and insect pests.
 - c. The superior varieties may be used in hybridization programmes.

Of these statements

- a. 1,2 and 3 are correct
 - b. 1, and 2 are correct
 - c. 2 and 3 are correct
 - d. 1 and 3 are correct
2. ◦ **Assertion (A)** : Energy required for the formation of a soup of organic molecules and later complex molecules acquiring characteristics of life in water was obtained from uv rays of the sun, radioactivity, electric discharges etc.
 - **Reason (R)** : Life originated in water possibly in the form of bacteria.
 - 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
 3. ◦ **Assertion (A)** : The presence of tyloses prevents rapid entrance of water, air and fungal filament.
 - **Reason (R)** : Tyloses are formed by the enlargement of the pit membrane of the half-bordered pit-pairs between wood parenchyma and tracheids.
 - 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
- 4.◦ **Assertion (A)** : The cyan bacterium *Anabaena* is a diazotroph.
- **Reason (R)** : Heterocyst of *Anabaena* lack photo system II.
 - 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)** : A large number of amino acids are not incorporated in proteins and are highly toxic.
- **Reason (R)** : The 'non-protein' amino acids provide chemical defense to plants and have been exploited for taxonomic studies.
 - 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)** : ^{14}C is widely used in biological studies for tracing metabolic pathways.
- **Reason (R)** : ^{14}C is the only isotope of carbon which binds with the bimolecular.
 - 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)** : *Xanthium* will not flower if the long dark period is interrupted by a single brief flash of light.
- **Reason (R)** : *Xanthium* is a short day plant where continuous long dark period is essential for flowering.
 - 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
8. ◦ **Assertion (A)** : Asexual reproduction is of great advantage to the plant improvement programme of a particular species.
- **Reason (R)** : An indefinitely large number of genetically identical individuals can be obtained irrespective of the degree of heterozygosis of the genotype.
- 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)** : Entomophilous plants produce less pollen when compared to anemophilous plants.
- **Reason (R)** : The wastage of pollen is reduced to the minimum in entomophilous plants because of the directional pollination.
- 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)** : Meiosis results in the formation of gametes with altered combination of genes.
- **Reason (R)** : The segregation of genes takes place during the formation of gametes.
- 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)** : A translocation plant exhibits a quadrivalent configuration at metaphase I.
- **Reason (R)** : It may be a translocation with two translocated chromosomes which results in the manifestation of quadrivalent configuration at metaphase-I.
- 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)** : In eukaryotic plants, the sequence of m RNA of a given gene is different from the sequence present in the genomic DNA.
- **Reason (R)** : The eukaryotic genes have non-coding intron sequences which are spliced during mRNA processing.
- 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)** : It has been noticed that when a plant is infected by agro bacterium tumefactions the (causal organism of crown gall) , some galls lack bacterial cells.
- **Reason (R)** : In galls lacking bacterial cells, the TIP (tumors inducing principle) is carried in a large circular extra chromosomal DNA element.
- 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)** : Mangroves are typical halophyte.
- **Reason (R)** : They flourish in sandy soil that is not very saline.
- 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. ◦ **Assertion (A)** : Social forestry needs approaches and attitudes that are quite different from what are needed for conventional forestry.
- **Reason (R)** : Social forestry is production based and consumption oriented whereas conventional forestry is protection based and revenue oriented.
- 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

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