

Examrace

Competitive Exams: Botany MCQs (Practice_Test 13 of 104)

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1. The diagrams given below show population dispersion: Which of these illustrates clumped dispersion pattern in a Population? Select the correct answer using the codes given below:
 - a. 2 and 3
 - b. 3 and 5
 - c. 3 and 4
 - d. 1 and 5
2. One of the main causes of the silting of big dams is
 - a. Deforestation in the catchments area
 - b. Increase in the population of wild animals in the forests around the dam
 - c. Insufficient rainfall
 - d. Excessive evaporation of water
3. Common indicator organism of water pollution is
 - a. Salmonella typhi
 - b. Entamoeba histolytica
 - c. Vibrio cholerae
 - d. Escherichia coli
4. Which of the species given below indicate the higher salinity level of the soil?
 - a. Prosopis juliflora
 - b. Azadirachta indica
 - c. Sueda fruticosa
 - d. Chenopodium album

Select the correct answer using the codes given below:

- a. 1 and 2

- b. 2 and 3
 - c. 3 and 4
 - d. 2 and 4
5. ◦ **Assertion (A)** : In the leaves of gymnosperms the transfusion tissue is the only conducting tissue.
- **Reason (R)** : Scarcity of veins has led to the development of transfusion tissue in the leaves of gymnosperms
- 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 the correct explanation of A
 - c. A is true but R is false
 - d. A is false but R is true
6. ◦ **Assertion (A)** : In prokaryotes, transcription and translation occur simultaneously, while in eukaryotes their occurrence is temporally and spatially separated.
- **Reason (R)** : In eukaryotes, transcription occurs in nucleus and the encoded message is translated in cytoplasm, but in prokaryotes there is no demarcation between cytoplasm and nucleus having no nuclear membrane.
- 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 the correct explanation of A
 - c. A is true but R is false
 - d. A is false but R is true
7. ◦ **Assertion (A)** : Phytochrome in green plants is different from phytochrome in etiolated tissues.
- **Reason (R)** : The form of phytochrome expressed in etiolated tissues is only of five gene products.
- 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 the correct explanation of A
 - c. A is true but R is false
 - d. A is false but R is true
8. ◦ **Assertion (A)** : Apodictic seeds of a plant produce clonal population.
- **Reason (R)** : In apodictic plants, embryo is formed without meiosis and fertilization.

- 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 the correct explanation of A
 - c. A is true but R is false
 - d. A is false but R is true
9. ◦ **Assertion (A)** : Mendel did not explain the phenomenon of linkage.
- **Reason (R)** : Factors (Genes) for all the seven characters in garden pea considered by Mendel were present in different homologous chromosomes.
 - 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 the correct explanation of A
 - c. A is true but R is false
 - d. A is false but R is true
10. ◦ **Assertion (A)** : Translocation heterozygote semisterile and are accompanied with multivalent association.
- **Reason (R)** : The gametes formed through alternate disjunction, are functional while those formed by adjacent disjunction are nonviable.
 - 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 the correct explanation of A
 - c. A is true but R is false
 - d. A is false but R is true
11. ◦ **Assertion (A)** : Frequency of crossing-over in chromosome is directly proportional to the distance between two genes.
- **Reason (R)** : Crossing-over at a point on a chromosome discourages the occurrence of another crossing over in the vicinity.
 - 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 the correct explanation of A
 - c. A is true but R is false
 - d. A is false but R is true
12. ◦ **Assertion (A)** : The hypersensitive response (HR) occurs only in specific host-pathogen combination in which the host and pathogen are incompatible.
- **Reason (R)** : A resistant gene (R) recognizes and is triggered into action by the elicitor molecules released by the pathogen.

- 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 the correct explanation of A
 - c. A is true but R is false
 - d. A is false but R is true
13. ◦ **Assertion (A)** : Jute fibers always occur in long wedge-shaped bundles outside the xylem.
- **Reason (R)** : Jute fibers always made up of phloem 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 the correct explanation of A
 - c. A is true but R is false
 - d. A is false but R is true
14. ◦ **Assertion (A)** : Deodar is one of the most proffered timber woods.
- **Reason (R)** : It is durable and has stability, resistance to temperature, insects and humidity.
 - 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 the correct explanation of A
 - c. A is true but R is false
 - d. A is false but R is true
15. Which one of the following statements correctly defines Convergent evolution?
- a. The development of similar characters/states in different lineages that are related through a common ancestry
 - b. The convergence of many characters/states in descents of the same lineage
 - c. The development of similar characters/states in different lineages that are not directly related through a common ancestry
 - d. The development of different characters/states in descendants of the same lineage