

## Competitive Exams: Botany MCQs (Practice-Test 84 of 104)

1. Polymerase chain reaction technique is used for

- a. DNA amplification
- b. screening gene libraries
- c. synthesis of polymerases
- d. DNA sequencing

2. Match List I with List II and select the correct answer

List-I

List-II

- |                              |                       |
|------------------------------|-----------------------|
| a. Gene libraries            | a. Production of food |
| b. Single cell protein (SCP) | b. Nif genes          |
| c. Agriculture cereal crop   | c. Chromosome mapping |
| d. C-DNA                     | d. Gene bank          |

**A B C D**

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- a. 2 3 1 4
- b. 4 1 2 3
- c. 4 2 1 3
- d. 3 2 1 4

3. Which one of the following organisms is advantageously associated with single-cell protein production technology?

- a. Agro bacterium

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- b. Spirulina
- c. Saccharomyces
- d. Acetabularia

4. Match List I with List II and select the correct answer using the codes given below the lists:

List-I

List-II

- |                    |                         |
|--------------------|-------------------------|
| a. Aerenchyma      | a. Lithophyte           |
| b. Crustose lichen | b. Mangrove             |
| c. Vivipary        | c. Disturbed succession |
| d. Discilimax      | d. Hythilla             |

    A    B    C    D

- a. 4 1 2 3
- b. 2 3 1 4
- c. 4 1 3 2
- d. 1 4 2 3

5. Disappearance of Salmon fish from water bodies indicates excess of

- a. Zinc in water
- b. Mercury in water
- c. Fluoride in water
- d. Phosphorus in water

6. In the hills, the soil erosion takes place due to rapid flow of rain water. It can be most effectively controlled by

- a. Channel sing the water

- b. Terrace cultivation
- c. Jhum cultivation
- d. Building dikes

7. • **Assertion (A):** Leaves develop chlorosis in the absence of iron.

- **Reason (R):** Iron is a constituent of

Chlorophyll.

- 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):** Germinating seeds which store fats as reserve food material are very rich in glyoxysomes.

- **Reason (R):** Glyoxysomes are required for the conversion of fats into sugar to provide energy to the germinating seed.

- 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):** Dichogamy refers to maturation of male and female sex organs at different times.

- **Reason (R):** This is a safeguard against cross-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 the correct explanation of A
- c. A is true but R is false
- d. A is false but R is true

10. • **Assertion (A):** In F<sub>2</sub> population, a dysgenic trait segregates according to 9: 3: 3: 1 ratio.

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- **Reason (R):** Deviations from the theoretical segregating ratio occur due to linkage between the controlling genes.

- Both A and R are true and R is the correct explanation of A
- Both A and R are true but R is NOT the correct explanation of A
- A is true but R is false
- A is false but R is true

11. • **Assertion (A):** Each cell is totipotent.

- **Reason (R):** This is implicit in the cell theory expressed by Schwann.

- Both A and R are true and R is the correct explanation of A
- Both A and R are true but R is NOT the correct explanation of A
- A is true but R is false
- A is false but R is true

12. The geological age of a rock is determined by

- The fossil flora and fauna
- Chemical composition of the rocks
- Radiometric dating
- Spectroscopic data

13. Which one of the following is the earliest land plant?

- Rhynia
- Homea
- Cordite's
- Cooksonia

14. Match List I (Plant groups) with List II (Botanists) and select the correct answer using the codes given below the lists:

List-I

a. Algae

List-II

a. Kashyap

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b. Hepatics

c. Fossil gymnosperms

d. Angiosperms

b. Fr. Santapau

c. Iyenger

d. Sahni

**A B C D**

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a. 3 1 4 2

b. 2 4 1 3

c. 3 4 1 2

d. 2 1 4 3

15. Dendrochronology is the

a. Study of seasonal activity of the cranium

b. Determination of age of a tree by counting the annual rings

c. Determination of the nature of the annual rings

d. Study of seasonal behavior of plants governed by endogenous rhythm