

R.S.P.COLLEGE, JHARIA(Belagaria)
Department of Botany

Semester V Internal Examination, 2021

Paper: C-XII Plant Physiology F.M.= 15

Section A

Choose the correct Answer

[15 x 1 = 15]

1. The rate of transpiration will _____ if the atmospheric pressure is low

- (a) Increase
- (b) Decrease
- (c) Stay unchanged
- (d) Can't be determined

Answer: (a) Increase

2. The main function of guard cells is to help with _____

- (a) Transpiration
- (b) Guttation
- (c) Transcription
- (d) None of the above

Answer: (a) Transpiration

3. Living cells placed in an isotonic solution tend to retain their shape and size.

This is based on the principle of

- (a) Diffusion
- (b) Transpiration
- (c) Osmosis
- (d) None of the above

Answer: (c) Osmosis

4. Transport of food materials in higher plants occurs through

- (a) Flowers
- (b) Companion cells
- (c) Tracheids
- (d) Sieve elements

Answer: (d) Sieve elements

5. The movement of materials from the leaves to other tissues of the plant is called _____

- (a) Tropic movement
- (b) Guttation
- (c) Transpiration
- (d) Translocation

Answer: (d) Translocation

6. Due to low atmospheric pressure, the rate of transpiration will

- a) increase
- b) decrease rapidly
- c) decrease slowly
- d) remain unaffected

Answer : a) increase

7. The exudation of xylem sap drops on the edges of leaves is called

- (a) Transpiration
- (b) Guttation
- (c) Condensation
- (d) None of the above

Answer: (b) Guttation

8. Aquaporins are formed in cell membranes by

- (a) intergral membrane protein
- (b) Peripheral membrane protein
- (c) Phospholipids
- (d) None of the above

Answer: a) intergral membrane protein

9. The transpiration is regulated by the movements of

- a) Subsidiary cells of the leaves
 - b) Guard cells of the stomata
 - c) Mesophyll tissue cells
 - d) Epidermal cells of the leaves
- Answer : b. Guard cells of the stomata

10. The water potential of pure water is

- a. Zero
- b. Less than zero
- c. More than zero, but less than one
- d. More than one

Answer: a. Zero

11. Nitrogen fixation is the conversion of

- a) N_2 to N
- b) N_2 to NH_3
- c) N_2 to NO_3^-
- d) N_2 to urea

Answer: b) N_2 to NH_3

12. Symbiotic nitrogen-fixing cyanobacteria are not present in

- a) Azolla
- b) Gnetum
- c) Anthoceros
- d) Cycas

Answer : b) Gnetum

13. Ammonification is the formation of

- a) Ammonia from nitrates by decomposers
- b) Ammonia from nitrogen
- c) Ammonia from amino acids

d) Ammonia from nitrates by nitrogen fixers

Answer :c) Ammonia from amino acids

14. Conversion of ammonia to nitrite and then to nitrates is called

a) Ammonification

b) Denitrification

c) Assimilation

d) Nitrification

Answer d) Nitrification

15. Physical properties of water are due to the presence of

a) Covalent bonds between water molecules

b) Hydrogen bonds between water molecules

c) a) and c)

d) None of above

Answer: b) Hydrogen bonds between water molecules