



BIOLOGY

BOOKS - MAXIMUM PUBLICATION

TRANSPORTS IN PLANTS

Exercise

1. How is mycorrhizal association helpful in absorption of water and minerals in plants?



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2. Closure of stomata due to water stress is brought about by

A. Auxin

B. Ethylene

C. Abscisic acid

D. Cytokinin

Answer: C



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3. The most common type of transpiration is

A. Stomatal

B. Circular

C. Lenticular

D. Foliar

Answer: A



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4. All the following include osmosis except

A. Passage of water from root hair to adjacent cells

B. Passage of water from lower xylem to upper xylem

C. Passage of water from xylem vessel to mesophyll cell

D. Entry of water into root hair from soil solution

Answer: B



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5. Stomatal opening and closure are due to

- A. Presence of gasses inside leaves
- B. Gene action
- C. pressure offered by guard cells
- D. Pressure offered by subsidiary cells

Answer: C



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6. Translocated of sugars is correlated by

A. Boron

B. Iron

C. Molybdenum

D. Calcium

Answer: A



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7. Identify the wrogn statement of the following

A. Root pressure is a positive pressure that develops in the xylem sap of the root of some plants

B. Water molecules remain attached to one another by a strong mutual force called cohesion force

C. Guttation is frequently seen in herbaceous plants growing under the condition of low soil moisture and low atmospheric humidity

D. In monocot leaves, guard cells remain dumb-bell shaped and their cell walls are thickened only in the middle

Answer: C



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8. In which of the following plants, will there be no transpiration?

- A. Plants living in desserts
- B. Plants growing in hilly regions
- C. Aquatic submerged plants
- D. Aquatic plants with floating leaves

Answer: C



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9. When a cell is placed in hypertonic solution

A. Exosmosis occurs and the cell becomes turgid

B. Endosmosis occurs and cell becomes turgid

C. Exomosis occurs and cell becomes plasmolysed

D. Endosmosis occurs and cell becomes plasmolysed

Answer: C



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10. The thin film of water covering soil particles and held strongly by attractive forces is called

- A. Hygroscopic water
- B. Run-away water
- C. Gravitational water
- D. Capillary water

Answer: A



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11. Plants die when over fertilized because the fertilizer

A. Damages the wall of delicate root hairs

B. Blocks absorption of nitrogenous ions

C. Causes dehydration of plants by
exosmosis

D. Upsets soil environment by poisoning

Answer: C



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12. Movement of individual molecules of substance from a region of their higher concentration to a region of their lower concentrations is called

A. Osmosis

B. Turgur pressure

C. Diffusion

D. Osmotic potential

Answer: A



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13. The proteins that form large pores in the outer membranes of the plastids, mitochondria etc are

A. Porins

B. Aquaporins

C. Symporters

D. Both A and B

Answer: A



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14. Transport of molecules across the membrane in the same direction is

A. Antiport

B. Symport

C. Permeability

D. Uniport

Answer: B



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15. Rates of osmosis depends on

A. Diffusion

B. Pressure gradient

C. Concentration gradient

D. Both B and C

Answer: C



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16. One of the following is selectively permeable

A. Tronoplast

B. Suberised cell wall

C. Copper ferrocyanide membrane

D. Cellulosic cell wall

Answer: A



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17. What will happen if a flaccid cell is placed in hypotonic solution?

A. Plasmolysis

B. Exosmosis

C. Endosmosis

D. None of these

Answer: C



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18. Pressure that occurs in a cell due to osmotic diffusion of water inside is called

A. Osmotic pressure

B. Turgor pressure

C. Water pressure

D. Diffusion pressure

Answer: A



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19. Movement of water through the cell wall without crossing any membrane is

A. Apoplstic

B. Symplastic

C. Tonoplastic

D. Cytoplasmic

Answer: A



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20. Cytoplasmic strands that connects two neighboring cells through

A. Pits

B. Semipermeable membrane

C. Plasmodesmata

D. Root hair

Answer: C



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21. Guttation occurs in leaves through

A. Stomata

B. Epithelium

C. Hydathode

D. Leaf margin

Answer: C



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22. Dry seeds swells when they are placed in water due to

A. Imbibition

B. Plasmolysis

C. Diffusion

D. Osmosis

Answer: A



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23. Transpiration in plants helps to

- A. The supply of water for photosynthesis
- B. Maintains cell turgidity
- C. Transports minerals from soil to all parts
of the plant
- D. All the above

Answer: D



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