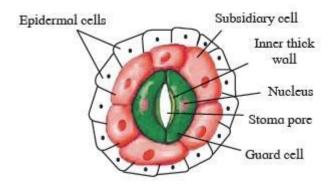
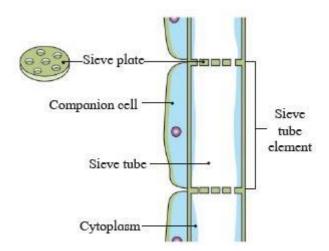
6. Plant Water Relation

| 1) Turbidity increase pressure of cell. (a) Wall pressure (b) Osmotic pressure (c) Turgor pressure (d) Root pressure |
|---|
| 2) Diffusion Pressure Deficit or Suction theory was coined by (a) B. S. Meyer (b) Kramer, and Thimann (c) Atkins, and pristle (d) Bohem |
| 3) The loss of water in the form of liquid is called (a) Transpiration (b) Guttation (c) Hadathodes (d) None of these |
| 4) Osmosis is a property of (a) Solute (b) Solvent (c) Solution (d) Membrane |
| 5) Due to low atmospheric pressure the rate of transpiration will |
| 6) Water constitutes almost of most plant cells, and tissues. (a) 80 to 85% (b) 60 to 65% (c) 90 to 95% (d) 50 to 55% |
| 7) Water is the best transport medium for dissolved and molecules. (a) Carbohydrates (b) Minerals (c) Food (d) Both b and c |
| 8) Water present in the form of hydrated oxides of silicon, aluminum is called |
| 9) Plant does not obtain variety of substances like (a) Minerals (b) Water (c) O ₂ (d) None of these |
| (a) Biological (b) Mechanical (c) Physical (d) Chemical |
| (a) Accessory cells (b) Guard cells (c) Subsidiary cells (d) Epidermal cells |
| (2) The organ in the diagram helps in |

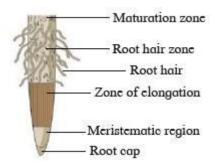


- (a) Transpiration
- (b) Diffusion
- (c) Osmosis

- (d) None of these
- **13**) Identify the below diagram.

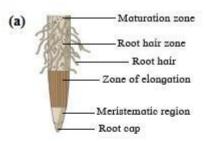


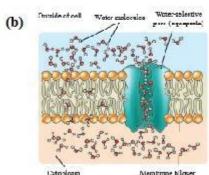
- (a) T. S. of sieve tube
- (b) T. S. of companion
- (c) L. S. of sieve tube
- (d) L. S. of companion.
- 14) _____ in the given diagram helps in absorption of water.

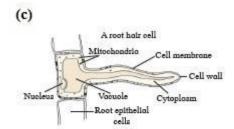


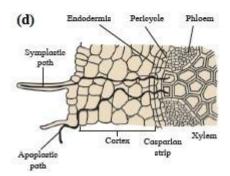
- (a) Root cap
- (b) Root hair zone
- (c) Maturation zone
- (d) Root hair
- **15**) Excessive _____ leads to wilting, and injury in the plant.
 - (a) Transportation
- (b) translocation
- (c) Transpiration
- (d) turgor pressure
- **16**) _____ are factors affecting water absorption.

| (c) Transpiration (d) All of these |
|---|
| 17) In osmosis solvent from weaker solution enters into the cytoplasm of a cell through a (a) Plasma membrane (b) Cell wall (c) Plasmodesmata (d) Nucleus |
| 18) The difference in the diffusion pressures of pure solvent, and the solvent in a solution is called |
| (a) Suction Pressure (b) Water potential (c) Diffusion Pressure Deficit (d) both a, and c |
| 19) During plasmolysis, protoplast of cell shrinks, and recedes from (a) Plasma membrane (b) Cell wall |
| (c) Plasmodesmata (d) Nucleus |
| 20) In guard cells, when sugar is converted into starch, the stomatal pore |
| 21) Surface tension is due to |
| 22) Which of the following type of solution has lower level of solutes than the solution?(a) Isotonic(b) Hypotonic(c) Hypertonic(d) An-isotonic |
| (a) T.P. (b) W.P.(c) DPD (d) Incipient plasmolysis. |
| 24) Which of the below diagram explains pathways for water uptake by the root. |









- 25) The amphistomatic leaves contain stomata on _______

 (a) Upper epidermis (b) lower epidermis

 (c) None of these (d) both surface
- **26**) The transport of food through phloem is _____
 - (a) Unidirectional
- (b) Bidirectional
- (c) Tangential
- (d) Radial
- **27**) Food is always translocated in the form of _____
 - (a) glucose
- (b) fructose
- (c) sucrose
- (d) mannose
- 28) _____ is the cytoplasmic extension of epiblema cells.
 - (a) Root cap
 - (b) Root hair
 - (c) Zone of elongation

| (d) Meristematic region |
|---|
| 29) Outer layer cell wall of root hair is composed of (a) Cellulose (b) Pectin (c) Both a, and b (d) None of these |
| 30) Epiphytic roots having special tissue called (a) Vacuole (b) Velamen (c) Epiblema (d) None of these. |
| 31) Swelling up of hydrophilic colloids due to absorption of water is called (a) Osmosis (b) Diffusion (c) Imbibition (d) None of these |
| 32) A strong force of attraction between water molecules is called (a) Cohesive force (b) Adhesive force (c) All of these (d) None of these |
| 33) In a flaccid cell, T. P. is zero. Therefore DPD = (a) TP (b) WP (c) DPD (d) OP |
| 34) The part where food is synthesized is called (a) Sink (b) Source (c) Translocation of food (d) None of these |
| 35) In stomal transpiration, on the lower epidermis is called as (a) Epistomatic (b) Hypostomatic (c) Amphistomatic (d) None of these |
| 36) When food is translocated from phloem to pith is called (a) Radial (b) Tangential (c) Bidirectional (d) None of these |
| 37) Food is translocated along the translocation gradient, passively is known as (a) Loading veins (b) Unloading veins (c) All of these (d) None of these |
| 38) Water absorption takes place through |
| 39) The value of water potential for pure water is (a) 1 (b) 2 (c) 3 (d) Zero |
| 40) During rainy season wooden doors warp and become difficult to open or to close because of |
| 41) Translocation of water is also called as (a) Ascent of sap (b) Active absorption (c) Passive absorption (d) Both b, and c |

| | ter molecules get tightly adsorbed without formation of | | | |
|---|---|--|--|--|
| (a) Solvent (b) (c) Pressure (d) |) Solution) All of these | | | |
| | | | | |
| · · | epted theory for ascent of sap is | | | |
| (a) Capillary theory(b) Root pressure theory | | | | |
| (c) Diffusion | | | | |
| (d) Transpiration pill t | heory | | | |
| | e for absorption by root is | | | |
| (a) Gravitational water | | | | |
| (c) Hygroscopic water | (d) Combined water | | | |
| 45) Identify the following | g diagram. | | | |
| 90000 | | | | |
| (a) Bark | (b) Root hair | | | |
| (c) Lenticel | (d) Phloem | | | |
| All the Best | | | | |

6. Plant Water Relation Keys

1) Ans. (c) **2)** Ans. (a)) Ans. (b) **4)** Ans. (b)) Ans. (a) **6)** Ans. (c)) Ans. (d)) Ans. (c)) Ans. (d)) Ans. (c)) Ans. (b)) Ans. (a)) Ans. (c)) Ans. (d)) Ans. (c)) Ans. (d)) Ans. (a)) Ans. (d)) Ans. (b)) Ans. (a)) Ans. (c)) Ans. (b)) Ans. (c)) Ans. (d)) Ans. (d)) Ans. (b)

- 27) Ans. (c)
-) Ans. (b)
-) Ans. (b)
-) Ans. (b)
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-) Ans. (a)
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-) Ans. (b)
-) Ans. (a)
-) Ans. (b)
-) Ans. (c)
-) Ans. (d)
-) Ans. (b)
-) Ans. (a)
-) Ans. (b)
-) Ans. (d)
- **44)** Ans. (d)
-) Ans. (c)