

Class: IX Sub:Life science Date: 08.06.2020

Topic: Ascent of sap - Adhesive cohesive force theory and translocation of food by phloem F.M. : 15

Choose the correct option:

(1x15=15)

- The force of attraction among the water molecule which forms a continues chain is called :a) Hydrostatic force b) Hydrophilic force c) Cohesive force d) Adhesive force
- The force of attraction between water molecules cells and xylem is called :a) Cohesive force b) Xylem pressure c) Wall pressure d) Adhesive force
- 3. The pull which is developed due to the Transpiration is called :-a) Transpiration pull b) Cohesive pull c) Adhesive pull d) All of these
- 4. The Transpiration pull results in the:-a) Formation of suction pressure b) Partial vaccum in the plant leaf c) Suction pressure in the roots d) All of these
- 5. Ascent of sap is combined effect of the following :-a) Root pressure b) Adhesive cohesive force c) Transpiration pull d) All of these
- 6. The continuity of water column in xylem is due to :-a) Adhesive force b) Cohesive force c) Adhesive-cohesive force both d) Root pressure
- 7. The water enters the cortical cells, by cell to cell _____.a) Active transport b) Osmosis c) Diffusion d) Both (b) and (c)
- Adhesive cohesive transpiration pull theory was _____ proposed by :-.
 a) Stephen and Hales b) Dixon and Jolly c) Edward Jenner d) None of these
- 9. The transport of food through phloem is called :-a) Translocation b) Active transport c) Passive transport d) Transportation
- 10. The bulk flow hypothesis of translocation of food was proposed by :-a) Curtis b) Munch c)Fensom and Williams d) None of these
- 11. According to Munch's hypothesis the leaves acts as _____ and roots acts as _____.a) Source and sink respectively b) Sink and source respectively c) Transportation centre and absorption center respectively d) None of these
- 12. Curtis proposed the concept of ______ which helps in translocation of food.a) Mass flow b) Bulk flow c) Cytoplasmic streaming d) All of these

- 13. According the Fensom and Williams contraction and relaxation of ______ cause translocation of food.
 - a) Plasmodesmata b) P-proteins c) Phloem fibres d) Sieve tubes
- 14. The most legitimate theory in support of ascent of sap is :-a) Adhesive-cohesive Transpiration pull theory b) Root pressure theory c) Pulsation theory d) None of these
- 15. Munch's bulk flow hypothesis was proposed in the year :a) 1974 b) 1935 c) 1942 d) 1930

Shaista Ahmed