

Class: IX Sub: Life science Date: 18.05.2020

Topic: Active transport and Root pressure theory

Choose the correct option:

(1x15=15)

F.M.: 15

- The process by which uptake of molecules occurs with the expense of energy is called :a) Diffusion b) Osmosis c) Active transport d) None of these
- There are _____ types of Active transport:a) One b) two c) three d) Four
- 3. The active transport which takes place following osmotic gradient is called :a) Osmotic type b) Non-osmotic type c) diffusion d) None of these
- 4. Active osmotic absorption causes the :a) Suction pressure of root hairs to decrease b) Suction pressure doesn't change c) Suction pressure increases in root hairs d) All of these
- The endodermis has a special structure which does not allow water to pass. It is called : a) Bulliform cells b) Casparian strips c) Scalariform thickening d) None of these
- 6. The specialized cell which allow water to enter from endodermis to pericycle are called : a) Endodermal cell b) Xylem cell c) Pits d) Passage cells
- 7. During active transport special ______ are used to transport molecules or ions across the membrane.

a) Protein carriers b) Carriers c) Lipid carriers d) Cells

- The absorption of water in the non-osmotic active transport takes place ______ concentratration gradient.
 - a) Along b) Against c) Sometimes along and sometimes against d) None of these
- 9. In active non-osmotic transport the osmotic pressure of soil water is ______ than that of root hair cells.

a) Greater b) Lesser c) Equal d) No effect

- 10. Active non-osmotic absorption of water depends on following factors :-a) ATP Production b) Concentration gradient c) Phytohormones d) All of these
- 11. The upward of movement of sap along with minerals is called :-a) Sap exchange b) Ascent of sap c) Sap rise d) Uptake of sap
- 12. The direction of ascent of sap is :-a) Leaves to root b) Stem to branches c) Root to leaves d) All of these

- 13. Root pressure theory was proposed by :-a) Dixon and Jolly b) Stephen and Hales c) Peter Mitchell d) Pfeffer
- 14. The root pressure can only force the ascent of sap upto:a) 10-15 metres b) 15 Metres c) 7 Meter d) 3-4 metres
- 15. The root pressure is the actually the cumulative effect of:-a) Hydrostatic pressure b) Suction pressure c) Turgor pressure in the cortical celld) All of these

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