



BIOLOGY

NCERT - NCERT BIOLOGY(TELUGU)

TRANSPORT IN PLANTS

Question

1. What are the factors affecting the rate of diffusion?



Watch Video Solution

2. What are porins? What role do they play in diffusion?



Watch Video Solution

3. Describe the role played by protein pumps during active transport in plants.



Watch Video Solution

4. Explain why pure water has the maximum water potential.



Watch Video Solution

5. Briefly describe water potential. What are the factors affecting it?



Watch Video Solution

6. What happens when a pressure greater than the atmospheric pressure is applied to pure water or a solution?



[Watch Video Solution](#)

7. (a) With the help of well-labelled diagrams, describe the process of plasmolysis in plants, giving appropriate examples.

(b) Explain what will happen to a plant cell if it

is kept in a solution having higher water potential.



[Watch Video Solution](#)

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



[Watch Video Solution](#)

9. What role does root pressure play in water movement in plants?



[Watch Video Solution](#)

10. Describe transpiration pull model of water transport in plants. What are the factors influencing transpiration? How is it useful to plants?



[Watch Video Solution](#)

11. Discuss the factors responsible for ascent of xylem sap in plants.



[Watch Video Solution](#)

12. What essential role does the root endodermis play during mineral absorption in plants?



[Watch Video Solution](#)

13. Explain why xylem transport is unidirectional and phloem transport bi-directional.



[Watch Video Solution](#)

14. Explain pressure flow hypothesis of translocation of sugars in plants.



[Watch Video Solution](#)

15. What causes the opening and closing of guard cells of stomata during transpiration?



[Watch Video Solution](#)