

CHAPTER - 11 – TRANSPORT IN PLANTS

I. Answer in brief (2/3 marks)

1. What is transport? Mention the types.
2. What is Imbibition? Mention the significance.
3. Define water potential, solute potential.
4. What is DPD?
5. What is Ascent of sap?
6. Draw and label stomata.
7. What are hydathodes?
8. What is Guttation?
9. Define the terms: Source, Sink.

II. Answer in a paragraph (5 marks)

1. Give an account of diffusion.
2. Write a short note on membrane permeability.
3. Give an account of Osmosis.
4. Explain an experiment to prove Osmosis.
5. Explain the possible routes of water in plants.
6. Write a short note on mechanism of Ascent of sap.
7. Explain cohesion – tension theory.
8. What is transpiration? Explain the types.
9. Describe the structure and movement of stomata.
10. Explain the theory of K^+ transport.
11. Write a short note on factors affecting transpiration.
12. Explain Munch's mass flow hypothesis.
13. Give an account of theories of passive absorption.
14. Write a short note on Donnan Equilibrium.

