

- viii) What is nastic movement?
- ix) Define aerobic respiration.
- x) Define Ascent of Sap.
2. Attempt any four. 8
- a) Define phenomenon of diffusion.
- b) Explain lenticular transpiration.
- c) What are the end products of light reaction?
- d) Name pre-requisites of Osmosis.
- e) Give importance of plant physiology.
- f) What is chemotactic movement?
3. Answer any two. 8
- a) Describe non-osmotic theory of water absorption.
- b) Write a note on carbonic acid exchange theory.
- c) Describe different types of solutions in relation to cell sap.
4. a) Write any two. 6
- i) Explain in brief steward's theory of transpiration.
- ii) Explain role of cohesive & adhesive forces in Ascent of sap.
- iii) Give difference between active and passive absorption of water.
- b) Sketch & label structure of stomata. 2
5. Describe Glycolysis. 8

OR

Describe types of photosynthetic pigments and their roles.
