

SECTION-A

- 1- Write short answers to the following questions: 7
- What are Electrolytes?
 - Define Micronutrients.
 - Define Transpiration.
 - What is Glycolysis?
 - What are Cytokinins?
 - Define Soil Texture.
 - Define ECO SYSTEM.

SECTION-B

- 2- a) Enlist essential Plant Nutrients. Differentiate between Active and Passive transport of Nutrients. 3.5
 b) Describe the role and deficiency symptoms of Phosphorus and Calcium in plants. 4
- 3- a) What are Buffers? Briefly discuss their role in Biological Systems. 3.5
 b) Define Plant Growth. Describe the role of Gibberellins and Ethylene in plant growth. 4
- 4- a) Write a note on Krebs Cycle. 4
 b) Define Dormancy. What are causes of it? 3.5
- 5- a) Differentiate between: 4
 i) Absorption and Action Spectra ii) Photophosphorylation and Oxidative Phosphorylation
 b) Define Vernalization. Briefly describe its mechanism. 3.5

SECTION-C

- 6- a) What is Soil Organic Matter? Describe its importance. 4
 b) Give an account of different types of Soil Waters. 3.5
- 7- a) Define PRECIPITATION. Describe its different Types. 4
 b) Write a note on Water Cycle. 3.5
- 8- a) Write notes on Biotic Components of Ecosystem. 4
 b) Describe various types of Erosion of Soil by Water. 3.5
- 9- a) What is Plant Succession? Give an account of classification of Seres. 4
 b) Write briefly the effect of salt affected soil on Vegetation. 3.5