

- 1.(a) i) Describe the structure and functions of plant cell. (7)
- ii) Describe the various roots modified for physiological function. (7)
- OR**
- (b) i) Discuss the types of simple dry fruit. (7)
- ii) Define inflorescence. Discuss various types of cymose inflorescence. (7)
- 2.(a) i) Describe the vegetative and floral characteristics of Apocynaceae. (8)
- ii) Write a note on economic importance of leguminosae and solanaceae. (6)
- OR**
- (b) i) Classify coriandrum sativam in its family based on vegetative and floral characters. (8)
- ii) Write the botanical names of three medicinally important plants from each of Rubiaceae and Apocynaceae families. (6)
- 3.(a) Describe photosynthesis in plants. (14)
- OR**
- (b) i) Describe transcription. (7)
- ii) Write a note on polyploidy. (7)
- 4.(a) i) Describe Mitosis-cell division in animals. (6)
- ii) Define tissue. Discuss the epithelial and muscular tissue. (8)
- OR**
- (b) i) Draw neat and labelled diagram of internal structure of heart of frog. Write a note on its function. (7)
- ii) Discuss the histology of Rabbit pancreas. (7)
- 5.(a) i) Describe the life-cycle and pathogenecity of entamoeba. (7)
- ii) Describe the life-history of mosquito. (7)
- OR**
- (b) i) Describe the life-history and pathogenecity of Ascaris. (7)
- ii) Discuss the role of housefly as agent for spreading diseases. (7)
