



- 1 a) i) Describe internal structure of dicot stem with a neat labeled diagram. 7
ii) Explain different phases and significance of Mitosis. 7
OR
b) i) Define inflorescence? Explain different types of racemose in inflorescence. 7
ii) Draw the structure of a monocotyledonous seeds and label its parts. 7
- 2 a) i) Describe the vegetative and floral characteristics of Rubiaceae. 7
ii) Write an account of economic importance of solanaceae. 7
OR
b) i) Describe the distinguishing characteristics of leguminaceae family. 8
ii) Write characteristics floral formula and floral diagram of Rubiaceae. 6
- 3 a) Explain the process of respiration taking place in plants. 14
OR
b) i) Write a note on polyploidy. 7
ii) Explain in brief the process of photosynthesis taking place in plants. 7
- 4 a) i) Discuss the histology of Rabbit liver. 7
ii) Draw a neat labeled diagram of arterial system of frog. 7
OR
b) i) Discuss the histology of pancreas of Rabbit. 7
ii) Draw a neat labeled diagram of respiratory system of frog. 7
- 5 a) Describe the life history of housefly and the diseases spread by housefly. 14
OR
b) i) Give the life history of *Trypanosoma*. 8
ii) Give the morphology and life cycle of *Ascaris*. 6
