

**N.B.:**

- 1) Q1 and Q5 are compulsory.
- 2) Answer ANY TWO questions from Q 2, 3, 4 in Section I.
- 3) Answer ANY TWO questions from Q 6, 7, 8 in Section II.
- 4) Answers to Both the sections to be written in SEPARATE answer books.
- 5) Draw a labeled diagram WHEREVER necessary.

**SECTION - 01**

Q.1) Answer the following: (ANY FIVE) (2 Marks X 5 = 10)

- a) Write any two advantages of binomial nomenclature.
- b) Draw vegetative structure of *Chlorella*.
- c) Write any two characteristics of Dicot.
- d) Write any two characteristics of lichen.
- e) Enlist types of endosperms in angiosperms.
- f) Distinguish between racemose and cymose inflorescence.

Q.2) Answer the following: (5 Marks X 2 = 10)

- a) Describe external structure of *Riccia* thallus.
- b) Describe rules of binomial nomenclature with suitable examples.

Q.3) Explain the following: (5 Marks X 2 = 10)

- a) Explain concept of binomial nomenclature with suitable example.
- b) Explain flower as a modification of shoot on the basis of concepts and evidences.

Q.4) Write short notes on the following: (5 Marks X 2 = 10)

- a) Sexual reproduction in *Riccia*.
- b) Racemose inflorescence.

**SECTION - 02**

Q.5) Answer the following: (ANY FIVE) (2 Marks X 5 = 10)

- a) Write any two functions of leaf.
- b) Write any two significance of inflorescence.
- c) Write the role of ethylene in fruit ripening.
- d) What is symbiotic nitrogen fixation?
- e) What is mean by long day plants? Give its examples.
- f) Define Plant tissue and enlist its types.

Q.6) Answer the following: (5 Marks X 2 = 10)

- a) Describe structure of dicot seed.
- b) Describe anatomy of dicot leaf.

Q.7) Explain the following: (5 Marks X 2 = 10)

- a) Explain the types of dormancy.
- b) Explain brief account of glycolysis process with significance of respiration.

Q.8) Write short notes on the following: (5 Marks X 2 = 10)

- a) Apomixes
- b) Photoperiodism