

- NOTE: 1. All questions are compulsory.  
2. Figures to right indicate marks.  
3. Draw labeled diagrams wherever necessary

**Q I Answer the following (Any Two):** (20)

- 1) Describe the general characters of Chlorophyta with respect to range of thallus structure, chloroplast structure, pigment and reserve food.
- 2) Describe asexual reproduction in *Nostoc*.
- 3) Give classification of *Spirogyra* with reasons and explain its thallus and cell structure with neat labeled diagram.
- 4) Give economic importance of Algae as biofertilizers.

**Q II Answer the following (Any Two)** (20)

- 1) Explain different types of hyphae in fungi.
- 2) Give the systematic position and explain life cycle of *Rhizopus*.
- 3) Explain reproduction in *Aspergillus*.
- 4) Write economic importance of fungi.

**Q III Answer the following (Any Two)** (20)

- 1) Describe life history of *Riccia*.
- 2) Give Salient features of class Hepaticae.
- 3) Describe the internal structure of *Riccia* thallus with the help of a diagram.
- 4) Describe sexual reproduction in *Riccia*.

**Q IV Write short notes on (Any Three)** (15)

- 1) Scalariform Conjugation in *Spirogyra*.
- 2) Explain Structure of *Nostoc* with neat labelled diagram.
- 3) Ascocarp.
- 4) Sterigmata.
- 5) Classify *Riccia* with reasons.
- 6) What are the vegetative methods by which *Riccia* reproduces.