

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

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

- 1) Describe the structure of antheridium of *Sargassum*.
- 2) Give systematic position and diagrammatic representation of life cycle of *Sargassum*.
- 3) Describe the internal structure of thallus of *Dictyota*.
- 4) Describe sexual reproduction in *Dictyota*.

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

- 1) Classify *Anthoceros* with reasons and explain external morphology of *Funaria*.
- 2) Describe vegetative and sexual reproduction in *Funaria*.
- 3) Describe sex organs of *Anthoceros*.
- 4) Explain life cycle of *Funaria*.

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

- 1) Give the systematic position, distinguishing characters, floral formula and two plants of economic importance of the family Myrtaceae.
- 2) Give the systematic position, distinguishing characters, floral formula and two plants of economic importance of the family Amaranthaceae.
- 3) Explain the different parts of typical carpel and describe types of gynoecium.
- 4) Describe different types of Placentations with the help of diagrams.

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

- 1) Systematic position of *Dictyota*.
- 2) External morphology of *Sargassum*.
- 3) Structure of antheridia of *Anthoceros*.
- 4) T.S. of leaf of *Funaria*.
- 5) What is calyx? Explain its modifications.
- 6) Types of thalamus.