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) Give a detailed account on distribution and reproduction of Phaeophyta.
- 2) Which various pigments are present in algae? Explain in detail.
- 3) Explain the alternation of generations in the life cycle of Sargassum.
- 4) By drawing neat labeled diagram, explain sexual reproduction in Dictyota.

Q II Answer the following (Any Two)

(20)

- 1) Explain internal structure of gametophyte of class Anthocerotae. Give the systematic position of Anthoceros.
- 2) Explain the alternation of generations in Anthoceros life cycle.
- 3) Describe the anatomy of Funaria sporogonium.
- 4) Write about the morphology of gametophyte of class Musci and give the systematic position of *Funaria*.

Q III Answer the following (Any Two)

(20)

- 1) Give systematic position, distinguishing characters, floral formula and two plants of economic importance of family Magnoliaceae.
- 2) Give systematic position, distinguishing characters, floral formula and two plants of economic importance of family Asteraceae.
- 3) Give systematic position, distinguishing characters, floral formula and two plants of economic importance of family Palmae.
- 4) Give a detailed account on union of stamens.

Q IV Answer the following (Any Three)

(15)

- 1) Asexual reproduction in Dictyota
- 2) External structure of the thallus of Sargassum
- 3) Economic importance of class Musci
- 4) Internal morphology of phylloid of Funaria
- 5) Types of placentations
- 6) Forms of polypetalous corolla

___ The End ____