

- 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)

- 1) Describe life cycle of *Sargassum*. (20)
- 2) Explain alternation of generation in *Batrachospermum*.
- 3) Explain the sporophyte of *Anthoceros*.
- 4) Give an account of reserve food in algae.

Q II Answer the following (Any Two)

- 1) Write a note on Hymenium and Sterigmata. (20)
- 2) Explain rust disease.
- 3) Explain disease cycle of *Erysiphe*.
- 4) Give a detail account of systematic position of *Agaricus*.

Q III Answer the following (Any Two)

- 1) Give systematic position, distinguishing characters, floral formula and two plants of economic importance of the family "Brassicaceae" (20)
- 2) Give systematic position, distinguishing characters, floral formula and two plants of economic importance of the family "Meliaceae".
- 3) Give systematic position, distinguishing characters, floral formula and two plants of economic importance of the family "Myrtaceaceae".
- 4) Explain the importance of exmorphic characters in taxonomy.

Q IV Write short notes on (Any Three)

(15)

- 1) Thallus structure of *Batrachospermum*.
- 2) Sexual reproduction in *Anthoceros*.
- 3) Trama.
- 4) Annulus.
- 5) Classification and distinguishing characters of the family "Combretaceae".
- 6) Role of polysaccharide in taxonomy.