



M 26456

Reg. No. : .....

Name : .....

**I Semester M.A./M.Sc./M.Com. Degree (Reg./Sup./Imp.)**  
**Examination, November 2014**  
**(2013 and Earlier Admn.)**  
**BOTANY**

**Paper B – 1 : Phycology, Lichenology and Bryology**

Time : 3 Hours

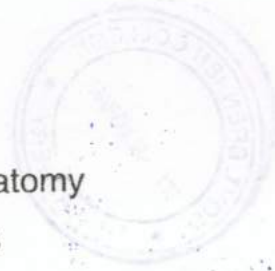
Max. Marks : 70

**Instruction : Draw diagrams wherever necessary.**

- I. Answer **any two** of the following : (2×10=20)
- 1) Give an account of the range of thallus organisation in Chlorophyceae.
  - 2) Write on the life cycle of Rhodophyceae with special reference to Polysiphonia.
  - 3) Explain the structure and evolutionary trends in cyanophyceae.
  - 4) Give the principles and modern trends in the classification of algae.
- II. Answer **any one** of the following : (1×10=10)
- 5) Write on the life history and phylogeny of Marchantiales.
  - 6) Give an account of general life cycle and classification of lichens.
- III. Answer **any three** of the following : (3×5=15)
- 7) Ultrastructure of flagella.
  - 8) Endosymbiotic theory of chloroplast evolution.
  - 9) Fossil Bryophytes.
  - 10) Bryophytes as pollution indicators.
  - 11) Structure of Parmelia.
- IV. Answer **any five** of the following : (5×3=15)
- 12) Thallus of Caulerpa
  - 13) Reproductive structure in Chara

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- 14) Funaria – stem anatomy
- 15) Anthoceros thallus
- 16) Archosporium
- 17) Spirulina
- 18) Algal bloom
- 19) Soredia.

V. Answer **any five** of the following :

(5x2=10)

- 20) Heterocyst
- 21) Trabeculae
- 22) Hold fast
- 23) Colonial algae
- 24) Elaters
- 25) Eviction
- 26) Foliose lichens
- 27) Gemma cup.