## **AE-769**

M.Sc. (Previous)
Term End Examination, 2016-17

## **BOTANY**

Paper - II

Biology and Diversity of Lower Plants Cryptogams

Time: Three Hours] [Maximum Marks: 100 [Minimum Pass Marks: 36

**Note**: Answer any **four** questions. All questions carry equal marks. Illustrate your answer with suitable diagram wherever necessary.

- 1. Write the ultra structure of 'Cyanobacteria' and 'Mycoplasma'.
- 2. Describe the range of thallus structure in Algae.
- 3. Discuss the life cycle patterns in Rhodophyta.

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(Turn Over)

## (2)

- **4.** Describe the different types of fruiting bodies found in Ascomycotina.
- **5.** Describe the order Anthocerotales and its affinities.
- **6.** Give a general account of Sphagnales. Also comment on its ecological importance.
- 7. Compare the structure of sporophytes in Lycopsida and Sphenopsida.
- **8.** Write very concise notes on any **five** of the following:
  - (a) Transformation
  - (b) Cystocarp
  - (c) Heterothallism
  - (d) Characters of Deuteromycotina
  - (e) Sporophyte of Polytrichum
  - (f) Sterilization among the Sporophytes of Bryophytes
  - (g) Evolution of stele in Pteridophytes
  - (h) Heterospory and origin of seed habit in Pteridophytes