

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.

(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 Lycopsidea 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
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