

**(DBOT 01)**

M.Sc. (Previous) DEGREE EXAMINATION, JUNE 2010.

First Year

Botany

Paper I — BIOLOGY AND DIVERSITY OF ALGAE,  
BRYOPHYTES, PTERIDOPHYTES AND  
GYMNOSPERMS

Time : Three hours

Maximum : 100 marks

SECTION A — (5 × 8 = 40 marks)

Answer any FIVE questions.

Each question carries 8 marks.

1. Spirulina.
2. Reproduction in Vaucheria.
3. Sporophyte of Funoria.
4. Spagnum.
5. Siphonostele.
6. Sporocarp of Azolla.
7. Endosperm in gymnosperms.
8. Classification of gymnosperms.

SECTION B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

9. (a) Give an account on types of life cycles in Algae.

Or

- (b) Write an essay on reproduction in chlorophyceae.

10. (a) Describe the development of antheridium and archegonium in Marchantia.

Or

- (b) Give an account on classification and general characters of bryophytes.

11. (a) Discuss the stelar evolution in pteridophytes.

Or

- (b) Write an account on fossil pteridophytes.

12. (a) Describe the structure and development of male and female strobili of Genetales.

Or

- (b) Give an account on Medullosaceae and state their affinities with other groups.