

**(DBOT 01)**

**M.Sc. (Previous) DEGREE EXAMINATION, MAY 2008.**

**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 EIGHT marks.**

1. Desmids.
2. Algae as bio-fertilizer.
3. Spagnum.
4. Archigoniophore.
5. Psilotum.
6. Apogamy.
7. Corollorhiza.
8. Ephedra.

**SECTION B — (4 × 15 = 60 marks)**

**Answer ALL questions.**

**Each question carries 15 marks.**

9. (a) Give an account of the reproduction in Rhodophyceae.

**Or**

- (b) Describe the thallus evolution in the members of chlorophyceae.

10. (a) Discuss the evolution of sporophyte in Bryophytes.

**Or**

- (b) Describe the origin of Bryophytes and discuss their relationship with other group of plants.

11. (a) Write an essay on heterospory and seed habit.

**Or**

(b) Discuss the stellar evolution in pteridophytes.

12. (a) Give a comparative account of sporophyte in living Gymnosperms.

**Or**

(b) Describe the salient features of Gnetales and add a note on their evolutionary significance.

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