

(DBOT 01)

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

First Year

Botany

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

Time : Three hours Maximum : 100 marks

SECTION A — (5 × 8 = 40 marks)

Answer any FIVE questions.

1. Role of Blue Green algae in Agriculture.
2. Nucule.
3. Apospory and Apogamy.
4. Types of vascular bundles in Lycopodium.
5. Capsule in Anthoceros.
6. Lepidocarpon.

7. Ephedra stem.
8. Cycas coralloid roots.

SECTION B — (4 × 15 = 60 marks)

Answer ALL questions.

9. (a) Give an account on economic importance of algae.

Or

- (b) Discuss the thallus organization in algae.

10. (a) Give a brief account of the life history of Polytrichum.

Or

- (b) Discuss the evolution of sporophyte in bryophytes.

11. (a) Give details of classification of pteridophytes along with salient features of pteridophytes.

Or

- (b) Write an essay on heterospory and seed habit.

12. (a) Write an essay on evolution of Gymnosperms.

Or

- (b) Discuss the variations in the structure of female gametophyte in gymnosperms.
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