

(DBOT 01)

M.Sc. DEGREE EXAMINATION, DECEMBER 2011.

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.

1. Nucule
2. Economic importance of blue green algae
3. Capsule in Anthoceros
4. Gemmae cups
5. Psilotom
6. Stele in Lycopsidea
7. Bennetlitaes
8. Wood in coniferales.

SECTION B — (4 × 15 = 60 marks)

Answer ALL questions.

9. (a) Describe the thallus organisation in Algae.

Or

- (b) Explain the phylogenetic relations in phaeophyta.

10. (a) Discuss the life history of Anthoceros.

Or

- (b) Discuss the evolution of Sporophyte in Bryophytes.

11. (a) Write an essay on fossil Pteridophytes.

Or

- (b) Describe the reproduction and evolutionary trends in Pteridopsida.

12. (a) Give an account of Pteridospermales.

Or

- (b) Describe the reproductive organs in Gnetales.