

**(DBOT 01)**

**M.Sc. (Previous) DEGREE EXAMINATION, MAY 2009.**

**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 of the following**

**Each question carries 8 marks.**

1. Life cycle of Charyophyta.
2. Fossil Algae.
3. Female gametophyte of Targionia.
4. Archegoniophore in Marchantia.
5. Eusporangium.
6. Apospory.
7. Bennettites.
8. Economic importance of Gymnosperms.

**SECTION B – (4 × 15 = 60 marks)**

**Answer ALL questions.**

**Each question carries 15 marks.**

9. (a) Role of pigments in the classification of Algae.

**Or**

- (b) Significant role of Cynophyceae in present day Agriculture and Industry.

10. (a) Detail account of evolution in the reproduction pattern of Bryopsida.

**Or**

- (b) Differentiate Hepaticopsida and Bryopsida Thallus structures.

11. (a) Evolution in Vascular system of Pteridophytes.

**Or**

(b) Give a detail account of Psilotopsida and its Fossil records.

12. (a) Discuss the evolution among Gnetales.

**Or**

(b) Give a detail account of classification of Gymnosperms.

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**(DBOT 02)**

**M.Sc. (Previous) DEGREE EXAMINATION, MAY 2009.**

**First Year**

**Botany**

**Paper II — SYSTEMATICS OF ANGIOSPERMS AND PLANT ECOLOGY**

**Time : Three hours**

**Maximum : 100 marks**

**SECTION A — (5 × 8 = 40 marks)**

**Answer any FIVE of the following.**

**Each question carries 8 marks.**

13. Besseyan order relationship.
14. Thorne.
15. Chromosomal structure.
16. Intraspecific ranks.
17. Ecological Niche.
18. Atmospheric Nitrogen fixation.
19. Earth summit.
20. Solar thermal energy.

**SECTION B — (4 × 15 = 60 marks)**

**Answer ALL questions.**

**Each question carries 15 marks.**