

(DBOT 02)

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

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 questions.

1. Give an account on plant distribution in the past and present.
2. Write a short note on pre Darwinian systems of classification.
3. Write a note on principles of nomenclature.
4. Give brief notes on evaluation of taxonomic categories.
5. Explain the concept of Ecosystem.
6. Explain homeostasis.

7. Write a short note on conservation of natural resources.
8. Give short notes on Alternate and additional energy sources.

SECTION B — (4 × 15 = 60 marks)

Answer ALL questions.

9. (a) Compare and contrast the system of classification of Engler and Grantl and Hutchinson.

Or

- (b) Describe the vegetation types in India with suitable examples.
10. (a) Explain the International code of Botanical Nomenclature.

Or

- (b) What are the contributions of phytochemistry in resolving taxonomic dispute?
11. (a) Describe biogeochemical cycles with reference to carbon cycle.

Or

- (b) Explain succession in plant communities.

12. (a) Give an account on Environmental pollution.

Or

(b) Write an essay on principles of plant geography.
