

(DBOT02)
M.Sc. (Previous) DEGREE EXAMINATION, DECEMBER 2007.

First Year
Botany

Paper II — SYSTEMATICS OF ANGIOSPERMS AND PLANT ECOLOGY

Time : Three hours
marks

Maximum : 100

SECTION A — (5 × 8 = 40 marks)

Answer any FIVE questions.

Each question carries 8 marks

1. Merits and demerits of Engler and Prantl system of classification.
2. Herbalists.
3. Type concept.
4. Alkaloids.
5. Concept of ecosystem.
6. Population interactions.
7. Conservation of natural resources.
8. Evolution of present day vegetation.

SECTION B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks

9. (a) Describe the vegetation types in India.
Or
(b) Describe the dicta of Hutchinson system of classification. What are its merits and demerits?
10. (a) Write an essay on principles of plant taxonomy.
Or
(b) Describe the role played by cytology in resolving taxonomic disputes.
11. (a) Describe biogeochemical cycles with special reference to phosphorus and sulphur.
Or
(b) Write an essay on succession in plant communities.
12. (a) Give a detailed account of floristic regions of India.
Or
(b) Enumerate the salient features of endemism and continental drift.