

(DBOT 02)

M.Sc. DEGREE EXAMINATION, DECEMBER 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.

1. Linnaeus system of classification.
2. Present and past plant distribution.
3. Author citation.
4. Taxonomic groups.
5. Homeostasis.
6. Local cycling of phosphorous in the soil.
7. Continental drift.
8. Biogas production

SECTION B — (4 × 15 = 60 marks)

Answer ALL questions.

9. (a) Give detail account of Bentham and Hooker's systems of classification and discuss its merits and demerits.

Or

- (b) Write about major vegetation types of India.
10. (a) Notes on (i) Principles (ii) Names of taxa and (iii) Type method of IUCN.

Or

- (b) Discuss the significance of Photochemistry as a tool to Taxonomy.

11. (a) Give a detail account of carbon cycle. What are the factors affecting carbon cycle?

Or

- (b) Explain the process of succession and attainment of climax state.

12. (a) Natural Resources - their concern and conservation methods.

Or

- (b) Explain the principles of continental drift in relation to plant geography.
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