

(DBOT 02)

M.Sc. (Previous) DEGREE EXAMINATION, MAY 2008.

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

Each question carries 8 marks.

1. Units of plant classification.
2. Synthetic system of plant classification.
3. Taxonomic categories.
4. Role of anatomy in plant taxonomy.
5. Hydrological cycle.
6. Homeostasis.
7. Continental drift.
8. Ex-situ conservation.

SECTION B—(4 × 15 = 60 marks)

Answer ALL questions

Each question carries 15 marks.

9. (a) Give a comparative account on the plant distribution in the past and present in India.

Or

- (b) Discuss the merits and demerits of post- Darwinian systems of classification.

10. (a) Describe the basic principles of plant taxonomy and add a note on ICBN.

Or

- (b) Describe the role of Phytochemistry in plant taxonomy.

11. (a) Describe the biogeochemical cycle of nitrogen.

Or

(b) What is plant succession? Describe the changes taking place during plant succession.

12. (a) Discuss the causes and consequences of soil pollution.

Or

(b) Discuss the strategies to conserve natural resources with special reference to water.
