

**M.Sc. Botany (Previous) DEGRE EXAMINATION, MAY 2007.
Paper II –SYSTEMATICS OF ANGIOSPERMS AND PLANT ECOLOGY**

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions from Section A.

Each question carries 8 marks.

Also answer ALL questions from Section B.

Each question carries 15 marks.

SECTION A - (5 X 8 = 40 marks)

1. Linnaeus system of classification.
2. Merits and demerits of Hutchinson system of classification. 3. Intraspecific categories.
4. Geography in relation to taxonomy. 5. Homeostasis.
6. Hydrological cycle. 7. Alternate energy. 8. Continental drift.

SECTION B - (4 X 15 = 60 marks)

9. (a) Describe the plant distribution in the past and present.
Or
(b) Bring out the salient features in Takhtajan system of classification. Add a note on its merits and demerits.
10. (a) Write an essay on plant nomenclature.
Or
(b) What is phytochemistry? What are its contributions in resolving taxonomic disputes?
11. (a) Describe food chain and energy flow.
Or
(b) Give an account of biogeochemical cycles with special reference to carbon and nitrogen.
12. (a) Write an essay on environmental pollution.
Or
(b) Enumerate the principles of plant geography.