

M. Sc. (Previous) Examination, 2001
BOTANY
Third Paper
(Plant Ecology, Economic Botany and Biostatistics)

Time—Three Hours
Maximum Marks—100

Answer **FIVE** questions in all
selecting at least **TWO** questions from each section.
All questions carry equal marks.

SECTION A

1. Describe the process of soil development and its physical and chemical properties.
2. What is plant succession? Describe the process in detail explaining the Climax Concept.
3. Write short notes on
 - (i) Plant indicators
 - (ii) Environmental impact assessment
 - (iii) Biosphere reserves
 - (iv) Dry land farming.
4. Briefly discuss the following
 - (i) Methods of studying vegetation
 - (ii) Homeostasis
 - (iii) Continuum Concept
 - (iv) Role of light in plant distribution.
5. What do you mean by environmental pollution? Describe its effects on plants.

SECTION B

6. Describe the economic botany of Saccharum.
7. Write short notes on
 - (i) Paper manufacture
 - (ii) Gossypium—its cultivation and economic importance.
8. Write notes on the following
 - (i) Regression
 - (ii) Chi-square test
 - (iii) Central tendency
 - (iv) Analysis of variance.

9. Describe the cultivation and economic importance of important spices and condiments of India.
10. Brief notes on the following
 - (i) Important Beverages
 - (ii) Essential oils.