

7. Describe Environmental Protection Act, 1986 in detail.
8. What is a biosphere reserve ? Give its benefits. What are the measures taken at international level to protect environment ?

Exam. Code : 210002
Subject Code : 4921

M.Sc. Botany 2nd Semester
ECOLOGICAL MODELLING AND FOREST
ECOLOGY
Paper: BOTC-529

Time Allowed—2 Hours] [Maximum Marks—50

Note :— There are **Eight** questions of equal marks. Candidates are required to attempt any **Four** questions.

1. Describe Matrix model for population growth. What do you understand by the term stable age distribution ? Explain with suitable example.
2. Explain Leslie model. What are the differences between Leslie model and Lotka-Volterra model ?
3. Write short notes on Cole's measures and point correlation coefficient for association.
4. Write a note on various indices of measurement of diversity. Explain Shannon-Weaver measure of biodiversity with suitable example.
5. Describe various climatic regions of India.
6. Differentiate social and urban forest. Give the salient features of Indian Forest Act, 1972.