

AE-773

M.Sc. (Final)

Term End Examination, 2016-17

BOTANY

Paper - II

Ecology Resource Utilization and Conservation

Time : Three Hours] [Maximum Marks : 100

[Minimum Pass Marks : 36

Note : Answer any **four** questions. All questions carry equal marks.

1. Describe the synthetic characters and continuum concept of community.
2. Write notes on any **three** of the following :
 - (a) Interspecific association
 - (b) Temporal changes cyclic and non-cyclic
 - (c) Causes and types of succession
 - (d) Hydrosere

(2)

3. What are the Laws of thermodynamics ?
Describe the energy flow in ecosystem by its two models. (Single channel model and Y-shape model)
4. Write notes on any **three** of the following :
 - (a) Litterfall and decomposition
 - (b) Productivity and its types in ecosystem
 - (c) Nitrogen cycle
 - (d) Ecological pyramids
5. Describe causes, effects and control measures of Air Pollution.
6. Write notes on any **three** of the following :
 - (a) Sustainability Indicators
 - (b) Effect of Soil Pollution on Ecosystem
 - (c) Concept of Sustainable Development
 - (d) Timber yielding plants
7. Define Ecosystem. Describe its types and structure of ecosystem.
8. Write notes on the following :
 - (a) Bamboos

(3)

- (b) Coral reef and mangrooves
- (c) Biosphere reserve and name of ten
biosphere reserve of India
- (d) Seed bank and gene bank
