

# **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*

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

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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

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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

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

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