

POST GRADUATE DIPLOMA IN  
ENVIRONMENT AND SUSTAINABLE  
DEVELOPMENT (PGDESD)

Term-End Examination

December, 2012

MED-007 : AGRICULTURE AND ENVIRONMENT

Time : 2 hours

Maximum Marks : 50

Note : Attempt *all* questions. The marks for each question are indicated against it.

1. Give brief answers to the following : 10
- What is an agro-ecosystem ? Name its *two* biotic components.
  - What is green-house effect ? Give *two* sources of green-house gases.
  - Define biopesticide. Enlist **two** types of bio-pesticides.
  - What is composting ? Name *two* methods of composting.
  - What is a renewable energy source ? Give *two* renewable energy sources.
2. Differentiate between *any two* of the following : 10
- Mulching and cover cropping
  - Sheet erosion and rill erosion
  - Agroforestry and social forestry

3. Attempt *any two* parts : 10
- (a) What is integrated pest management (IPM) ? Enlist **four** goals of IPM. Cite four reasons for compatibility of IPM with sustainable agriculture.
  - (b) Define sustainable agriculture. Discuss various indicators for agricultural sustainability.
  - (c) Discuss negative impact of agriculture on natural resources.
4. (a) What is post-harvest technology ? Discuss primary causes of loss of perishable agricultural produce. 5
- (b) What is a watershed ? Briefly explain objectives of watershed management. 5
5. Write short notes on *any two* of the following : 10
- (a) Biogas as an eco-friendly fuel
  - (b) Applications of biotechnology in agriculture
  - (c) Advantages of integrated farming systems