

01953

**POST GRADUATE DIPLOMA IN  
ENVIRONMENT AND SUSTAINABLE  
DEVELOPMENT (PGDESD)**

**Term-End Examination**

**June, 2010**

**MED-007 : AGRICULTURE AND ENVIRONMENT**

*Time : 2 hours*

*Maximum Marks : 50*

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

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1. Give brief answers to the following : 10
- (a) What is the importance of geographic information system (GIS) in agriculture ?
  - (b) Explain the basic composition of soil organic matter. Name any two factors responsible for depletion of organic content in soil.
  - (c) What is agro-processing ? List any two methods of agroprocessing.
  - (d) List any four factors influencing watershed operations.
  - (e) Define dry farming. Name two types of ponds constructed to store water.

2. Differentiate between *any two* of the following : 10
- (a) Mechanical and physical methods of pest management.
  - (b) Composting and vermicomposting.
  - (c) Drip irrigation and Sprinkler irrigation.
3. Attempt *any two* parts : 10
- (a) What is integrated nutrient management (INM) ? Discuss important components of INM.
  - (b) What is water-logged soil ? Discuss in brief different types of drainage to improve soil condition.
  - (c) Discuss the application of biotechnology in agriculture.
4. (a) Define sustainable agriculture. Describe different measures for achieving sustainability in agriculture. 5
- (b) What are off-farm inputs in agriculture and how these affect air quality ? 5
5. Briefly explain *any two* of the following : 10
- (a) Strategies to mitigate drought conditions.
  - (b) Importance of Post harvest technology.
  - (c) Application of biogas.