

01651

POST GRADUATE DIPLOMA IN  
ENVIRONMENT AND SUSTAINABLE  
DEVELOPMENT (PGDESD)

Term-End Examination

June, 2012

MED-007 : AGRICULTURE AND ENVIRONMENT

Time : 2 hours

Maximum Marks : 50

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*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) Define sustainable agriculture. Name two measures for achieving sustainability in agriculture.
  - (b) What is soil erosion ? Name *two* agents of soil erosion.
  - (c) What are biofertilizers ? Give two examples.
  - (d) What is the significance of ICTs in Agriculture ?
  - (e) Define biotechnology. Write *two* applications of biotechnology in agriculture.

2. Differentiate between *any two* of the following : 10
- (a) Modern Agriculture and Traditional agriculture
  - (b) Renewable and non-renewable energy sources
  - (c) Agro forestry and social forestry
3. Attempt *any two* parts : 10
- (a) List the factors affecting global climate change. How does the increase in temperature affect agriculture ?
  - (b) What is a water logged soil ? Briefly explain different types of drainage to improve soil condition.
  - (c) What are the possible options for managing crop residues in the present scenario ?
4. (a) What is a watershed ? Briefly explain objectives of watershed management. 5
- (b) What is integrated nutrient management (INM) ? Enumerate components of INM. 5
5. Write short notes on *any two* of the following : 10
- (a) Sustainable Development
  - (b) Transgenic plants
  - (c) Vermi composting