No. of Printed Pages: 3

**MED-007** 

P.T.O.

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

## **Term-End Examination**

01111

**MED-007** 

December, 2017

## **MED-007: AGRICULTURE AND ENVIRONMENT**

Time: 2 hours Maximum Marks: 50 **Note:** Attempt **five** questions in all. All questions carry equal marks. Question no. 1 is compulsory. Define the following terms: 1. (a) 3 Botanical pesticides (i) Seed gene bank (ii) (iii) Plantation crops (b) Expand the following (any *three*): 3 (i) **NPV** (ii) GATT (iii) CFC (iv) EXIM

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- (c) State whether the following statements are *true* or *false*:
  - (i) A system can be considered sustainable over a defined period, if the outputs do not decrease when the inputs are not increased.

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- (ii) Biological processes like anaerobic digestion and alcoholic fermentation involve enzymatic breakdown of biomass by micro-organisms at low pressure and high temperature.
- (iii) Rill erosion in its advanced stage is called sheet erosion.
- (iv) Bt cotton is a transgenic cotton in which a special type of protein called cry protein is produced by introducing a bacterial gene.
- 2. (a) Why is the cultural control method considered an important component of IPM? Explain any two cultural techniques.
  - (b) Discuss the role of women in agriculture.

<b>3.</b>	(a)	"Fertilizers are important components of intensive agriculture but they can pollute the environment." Comment on the statement giving suitable examples.	5
	(b)	Briefly explain ecological security. List the factors that threaten it.	5
4.	(a)	Discuss the effect of climate change on agriculture.	5
	(b)	Name a greenhouse gas produced from rice fields. How is it produced and what preventive measures should be taken to reduce its production?	5
5.	loss produ	ain the various causes responsible for the and spoilage of perishable agricultural uce. Suggest at least five ways of controlling closses.	10
6.	Write short notes on any <b>two</b> of the following: $2 \times 5 = 10$		
	(a)	Watershed Management	
	(b)	Aquaculture	
	(c)	Sustainability Indicators	
	(d)	Organic Farming	

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