

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

00575 Term-End Examination

June, 2018

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**.

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1. (a) Define the following terms : 2
- (i) Agro-Ecological zoning
 - (ii) Intercropping
- (b) Fill in the blanks : 4
- (i) Female honey bees which are unable to reproduce are called _____.
 - (ii) Plants with a gene or genetic construct that have been introduced by molecular techniques for a specific task are called _____.

- (iii) _____ is a plantation crop from which our country earns considerable foreign exchange.
- (iv) Seeds of _____ are used for extracting bio-diesel.
- (c) Differentiate between : 4
- (i) Contour trenching and Bench terracing.
- (ii) Sheet erosion and Rill erosion.
2. (a) Discuss various hazards associated with the use of pesticides in agriculture. 5
- (b) Explain the role of biological control in IPM with suitable examples. 5
3. (a) List biotechnological applications in agriculture and discuss any *two* in detail. 5
- (b) Define an agro-ecosystem. Give two main differences between agro-ecosystem and natural-ecosystem. 5
4. (a) What is food security ? Discuss the factors that influence access of the poor people to food. 5
- (b) Name a lac insect used for lac cultivation. Describe lac cultivation in India. 5

5. (a) List the various strategies to mitigate the adverse effect of drought on plants. 3
- (b) What is sustainable agriculture ? Explain the importance of INM in sustainable agriculture. 7
6. Write short notes on any *two* of the following : $2 \times 5 = 10$
- (a) Monoculture
- (b) Vermi-composting
- (c) Integrated Farming Systems
- (d) Uses of Crop Residues
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