

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

**Term-End Examination**

**February, 2021**

**MED-007 : AGRICULTURE AND ENVIRONMENT**

*Time : 2 hours*

*Maximum Marks : 50*

**Note :** Attempt any **five** questions in all. Question no. 1 is **compulsory**.

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1. (a) Define the following terms : 2
- (i) Eutrophication
  - (ii) Composting
- (b) Fill in the blanks : 4
- (i) An important source of renewable energy resource is \_\_\_\_\_ .
  - (ii) Nitrogen-fixing bacteria present in the root nodules of pea plant is \_\_\_\_\_ .
  - (iii) *Pyrilla*, a sugarcane pest, has been controlled by \_\_\_\_\_ in Uttar Pradesh.
  - (iv) Nuclear Polyhedrosis Virus (NPV) can be used for biocontrol of \_\_\_\_\_ .

- (c) Differentiate between the following pairs of terms : 4
- (i) Sheet erosion and Rill erosion
  - (ii) Manure and Fertilizer
2. (a) Briefly describe the impact of agriculture on land degradation. 5
- (b) What are the effects of water-logging on crop yield ? Mention briefly. 5
3. (a) Explain the role of ICT in agriculture. 5
- (b) What is Integrated Nutrient Management (INM) ? Discuss its various components. 5
4. (a) What is food security ? Discuss the social and economic factors influencing food security. 5
- (b) Discuss various uses of crop residues. 5
5. (a) Briefly describe eco-friendly management of water resources for agriculture. 5
- (b) What is biological control of pests ? How is it beneficial in comparison to chemical control ? 5

6. Write short notes on any **two** of the following

(250 words) :

$2 \times 5 = 10$

- (a) Climate Change and Agriculture
  - (b) Role of Women in Agriculture
  - (c) Organic Farming
  - (d) Sericulture
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