

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

**Term-End Examination**

**June, 2023**

**MED-007 : AGRICULTURE AND ENVIRONMENT**

*Time : 2 Hours*

*Maximum Marks : 50*

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**Note :** *Attempt any **five** questions in all.*

*Question no. 1 is compulsory.*

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1. (a) Define the following terms : 2
  - (i) Biotechnology
  - (ii) Integrated Pest Management
- (b) Fill in the blanks by choosing suitable word given in the brackets : 2
  - (i) Area of the Earth's surface characterized by distinct ecological response to macro-climate in ..... .  
(ecosystem/ecological region)
  - (ii) Bank cutting is the most common form of ..... erosion. (rill/steam)

**P. T. O.**

- (c) Name the scientist who : 2
- (i) invented the process of vaccination
  - (ii) discovered steam engine
- (d) Differentiate between the following pairs of term : 4
- (i) *Ex-situ* conservation and *In-situ* conservation
  - (ii) Systemic pesticides and contact pesticides
2. (a) Describe the effect of intensive agriculture on the soil structure and quality. 5
- (b) Explain the measures by which we can achieve sustainable agriculture. 5
3. (a) Briefly discuss the effect of increased concentration of carbon dioxide on crop productivity. 5
- (b) Categorize plants based on their ability to tolerate drought. List the strategies to mitigate drought conditions. 5
4. (a) What are solar photovoltaic devices ? How can these be used to meet demands of remote areas ? 5
- (b) How is organic farming advantageous over other farming systems ? 5

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5. (a) Explain any *five* methods used for effective drainage. 5
- (b) List the components of biodiversity. Define each component and write their importance. 5
6. Write short notes on any *two* of the following : 2×5=10
- (a) EXIM policy
- (b) Sericulture
- (c) Terraces for arable lands
- (d) Competitive use of crop residues