

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

Term-End Examination

December, 2022

MED-007 : AGRICULTURE AND ENVIRONMENT

Time : 2 hours

Maximum Marks : 50

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

1. (a) Define the following terms : 2
- (i) Integrated Nutrient Management
 - (ii) Genetic Diversity
- (b) Fill in the blanks with the appropriate word given in brackets : 2
- (i) The quantity of output from the agroecosystem per unit of some specified input is _____ .
(productivity/outcome)
 - (ii) Increasing levels of _____ are mostly because of fossil fuel consumption. (CO₂/ methane)

- (c) Name the scientist who 2
- (i) Invented the binomial nomenclature
 - (ii) Discovered the chemical composition of water
- (d) Differentiate between the following pairs of terms : 4
- (i) Sheet erosion and Gully erosion
 - (ii) Green manure and Farmyard manure
- 2.** (a) What is bio-energy ? Name the important bio-energy sources and discuss how these can be used to meet the energy needs in rural areas. 5
- (b) Classify the pesticides based on their functions and mode of entry. 5
- 3.** (a) Briefly explain the greenhouse effect, its causes and impact on environment. 5
- (b) How are ecological methods helpful to control insect-pests. Describe any five measures. 5
- 4.** (a) With the help of a case study, describe how people's participation can improve agriproductivity. 5
- (b) Discuss the impact of genetic conservation on the ecological security. 5

5. (a) Define watershed management and list its objectives. Add a short note on the factors which influence watershed operations. 5
- (b) Categorize the salt-affected soils. Write the measures to reclaim these soils. 5
6. Write short notes on any **two** of the following : $2 \times 5 = 10$
- (a) Post-harvest technology
- (b) Social forestry
- (c) Monoculture
- (d) Sustainable indicators
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