

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

Term-End Examination

December, 2024

MED-007 : AGRICULTURE AND ENVIRONMENT

Time : 2 Hours

Maximum Marks : 50

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

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1. (a) Define the following terms : 2
- (i) Geocentres
 - (ii) Agro-climatic zones
- (b) Fill in the blanks by choosing suitable word/s given in the parentheses : 2
- (i) (Robert Blackwell/Henry Cavendish) brought revolutionary changes in stock breeding.
 - (ii) In areas of low rainfall (contour bunding/graded bunding) is recommended.

- (c) Name the scientist who invented/discovered : 2
- (i) Chemical composition of water
- (ii) Penicillin
- (d) Differentiate between the following pairs of terms : 4
- (i) Sheet erosion and Rill erosion
- (ii) Drought escapers and Drought evaders
2. (a) What is social forestry ? Write its primary objectives and important applications. 5
- (b) Describe the impact of ozone layer depletion on agriculture. 5
3. (a) Define soil erosion. How can we control wind erosion of soil in plains ? 5
- (b) Describe the goals and parameters of sustainable agriculture. 5
4. (a) What is watershed ? Write a note on watershed management. 5

- (b) Define biodiversity. “Loss of biodiversity is a threat for agriculture.” Explain. 5
5. (a) What are the major off-farm inputs in agriculture ? How does the overuse of pesticides adversely affect the environment ? 5
- (b) What is Integrated Pest Management (IPM) ? Write about the cultural control methods of IPM. 5
6. Write short notes on any *two* of the following :
2×5=10
- (a) Components of alternative agriculture
- (b) Crop rotation and polyculture
- (c) Chemical amelioration of sodic soils
- (d) Bioenergy

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