MSD-016

POST GRADUATE DIPLOMA IN SUSTAINABILITY SCIENCE (PGDSS) Term-End Examination June, 2021

MSD-016: STRATEGIES AND MODELS FOR SUSTAINABILITY

Time : 3 hours

Maximum Marks : 100

- *Note*: Attempt any *ten* questions. Each question carries equal marks.
- Define Infrastructure. Describe the general and economic characteristics of infrastructure in the context of sustainability. 2+4+4=10
- 2. Explain any two sustainable infrastructure development approaches. 5+5=10
- **3.** Write short notes on any two of the following: $2 \times 5 = 10$
 - (a) Challenges and Perspectives in the Indian Health Sector
 - (b) Sanitation for Sustainable Health
 - (c) SWOT Analysis of Food Processing Industry
 - (d) ZERI Methodology of Waste Management

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- What is Remote Sensing ? Describe the major components of remote sensing technology. 10
- **5.** Describe any *two* of the following : $2 \times 5 = 10$
 - (a) Peoples Biodiversity Register
 - (b) Three-tier Knowledge Network
 - (c) Important aspects of VRC and VKC
 - (d) Community gene, seed, grain banks and their importance
- Describe various steps involved in setting up of a Bio-village. Explain how micro level planning is done for setting up of bio-villages. 5+5=10
- Describe any four ecological foundations of evergreen revolution for sustainable food production.
- 8. Briefly describe the ecological foundations of sustainable agriculture in the context of the following: $2\frac{1}{2} \times 4=10$
 - (a) Soil and soil health
 - (b) Biodiversity
 - (c) Fresh water
 - (d) Renewable energy

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- **9.** What is Food Security ? How do bio-villages and village knowledge centres play a key role in poverty alleviation and achieving food security ? $1+4\frac{1}{2}+4\frac{1}{2}=10$
- 10. What is a Model ? Explain any three models based on the concept of sustainable development. 1+3+3+3=10
- Define Integrated Farming System. Describe its role in improving the livelihood of small and marginal farmers, with suitable examples. 2+8=10
- 12. Explain the value of cultural landscape in conservation of nature and natural resources in the context of shifting agriculture.10

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