

**POST GRADUATE DIPLOMA IN
SUSTAINABILITY SCIENCE
(PGDSS)**

Term-End Examination

December, 2024

**MSD-016 : STRATEGIES AND MODELS FOR
SUSTAINABILITY**

Time : 3 Hours

Maximum Marks : 100

Note : (i) Attempt any *ten* questions.

(ii) All questions carry equal marks.

1. Define the term infrastructure. Explain the sustainability approaches to infrastructure development. 10
2. Write short notes on the following : 5+5=10
 - (a) Value addition in Indian agricultural industry
 - (b) Preventive medicine

3. Write short notes on the following : 5+5=10
- (a) Anaerobic digestion
 - (b) Life Cycle Assessment
4. What is Environmental Information System (ENVIS) ? Explain the role of ENVIS in environmental management in India. 10
5. Write short notes on the following : 5+5=10
- (a) Peoples Biodiversity Register
 - (b) Community Gene-Seed-Grain Bank
6. Explain the steps involved in setting up a biovillage. 10
7. What is Green Revolution ? Explain the shortcomings of green revolution. 10
8. Explain the ecological foundations of sustainable agriculture. 10
9. Explain the linkages between gender and market. 10
10. What is a model ? Explain the basic components of sustainable development models. 10

11. Write short notes on the following : 5+5=10
- (a) The prism model
 - (b) The egg model
12. Explain the sustainable livelihood strategies in Indian Himalayas. 10
13. Write short notes on the following : 5+5=10
- (a) Agroforestry
 - (b) Integrated Nutrient Management
14. Explain how the culture and subsistence livelihood are linked in traditional society. 10

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