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**MSD-016**

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

**Term-End Examination**

**December, 2021**

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

*Time : 3 Hours*

*Maximum Marks : 100*

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

(ii) Each question carries equal marks.

1. Differentiate between hard and soft infrastructure with suitable examples. Describe infrastructure development process and approaches. 5+5

2. Write short notes on any **two** of the following :  
2×5=10

- (i) Community led sanitation
- (ii) Sanitation and water pollution
- (iii) Value addition
- (iv) Alternative waste treatments

3. What is waste ? What are the various sources of waste ? Describe the 4R's of waste prevention techniques. 2+2+6

4. What is Environmental Information System ? Describe the broad responsibilities of focal point of ENVIS. What are its short-term and long-term objectives ? 2+4+4

5. Describe the following components of NRM :  
4×2½=10

- (i) Biodiversity
- (ii) Water management system
- (iii) Community gene-seed-grain bank
- (iv) Interlinkages between cultural diversity and biodiversity

6. What are Village Knowledge Centres (VKC) ? Describe important aspects of VKCs. 5+5

7. What is PRA ? Describe various tools needed for PRA. Describe the steps involved in establishing a biovillage. 2+4+4

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8. What is Green Revolution ? Describe the major lesson learnt from the green revolution. Explain various components of evergreen revolution.

2+4+4

9. Describe the following in the context of sustainable agriculture :

$4 \times 2 \frac{1}{2} = 10$

(i) Organic agriculture

(ii) Green agriculture

(iii) Eco-agriculture

(iv) Effective microorganisms

10. What is 'gender equality' and 'gender equity' ? Describe the gender and market linkages giving emphasis on cooperative movements and SHGs.

2+4+4

11. Write short notes on any *two* of the following :

5×2=10

(i) Sustainable development models

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(ii) Rural technology demonstration and training center model in central Himalayan region

(iii) Shifting agriculture

12. What is Sustainable Integrated Farming System (IFS) ? Describe various approaches of IFS with the help of few case studies. 2+8

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P. T. O.