

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

**Term-End Examination**

**June, 2022**

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

*Time : 3 hours*

*Maximum Marks : 100*

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**Note :** *Attempt both **Section A** and **Section B**. Answer the questions as per the instructions given in each section.*

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**SECTION A**

*Attempt any **six** questions. Each question carries 5 marks.*

*6×5=30*

1. Describe any two major approaches to the development of infrastructure based on the principles of sustainability. 5
2. State any five major challenges faced by the health sector in India. 5

3. Discuss the process of social mobilisation and planning in setting up of a biovillage.  $2\frac{1}{2}+2\frac{1}{2}=5$
4. What is Remote Sensing ? Discuss the role of remote sensing technique in the Indian Space Programme.  $2+3=5$
5. What is Evergreen Revolution ? Describe in brief, various components of the Evergreen Revolution. 5
6. Explain the role of Village Knowledge Centre for poverty alleviation. 5
7. Describe any two general models based on the concept of sustainable development, with the help of diagrams.  $2\frac{1}{2}+2\frac{1}{2}=5$
8. Discuss the hypothesis and approaches of integrated farming system. 5

## SECTION B

Attempt any **seven** questions. Each question carries  
10 marks.

7×10=70

9. What is sanitation and water pollution ? Discuss sustainable approaches to public health and sanitation. 2+8=10
10. What is waste management ? Discuss different waste management/treatment approaches. 2+8=10
11. What is over-exploitation of natural resources ? Discuss the components of NRM. 5+5=10
12. Write short notes on the following : 5+5=10
- (a) Participatory Rural Appraisal
- (b) Eco-technologies for Eco-enterprises
13. Define Eco-agriculture. Discuss ecological foundations of sustainable eco-agriculture. 2+8=10
14. Explain the role of microfinance for Self-Help Groups, with the help of suitable examples. Discuss Eco-enterprises and Market Linkages, with the help of suitable diagrams. 5+5

**15.** Write short notes on the following : *5+5=10*

(a) Shifting Agriculture and Sustainable Development

(b) Ecological and Social System Linkages with Sustainable Livelihood

**16.** Give a brief description of rural technology demonstration and training centres in the Central Himalayan region of India. *10*

**17.** Discuss the need of value addition from a sustainability point of view. Write the benefits of value addition. *5+5=10*

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