

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

Term-End Examination

December, 2022

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

Time : 3 hours

Maximum Marks : 100

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

SECTION A

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

6×5=30

1. With respect to infrastructure, write notes on the following : *1+2+2=5*
 - (a) Definition of Infrastructure
 - (b) Classification
 - (c) Characteristics

2. Analyse the Strengths, Weaknesses, Opportunities and Threats (SWOT) of food processing industry. *5*

3. Identify any five major challenges in Indian health sector. 5
4. What is waste recycling ? Give importance of recycling, with suitable examples. $2+3=5$
5. “Soil health and biodiversity are key to sustainable agriculture.” Justify the statement. $2\frac{1}{2}+2\frac{1}{2}=5$
6. With the help of suitable flowchart, explain the structure of biovillage paradigm. 5
7. Define ‘gender equality’ and ‘gender equity’. Discuss the need to incorporate equity and gender equality into trade. $1+1+3=5$
8. “Green Revolution changed India’s image from ‘begging bowl’ to ‘bread basket’.” Justify the statement. 5

SECTION B

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

$7 \times 10 = 70$

9. What is sustainable model for waste reduction ?
Discuss four important techniques for sustainable
waste management. $2+8=10$
10. What is Geographical Information System
(GIS) ? Explain the applications of Remote
Sensing and GIS in various fields. $2+8=10$
11. With reference to natural resource management,
write short notes on the following : $5+5=10$
- (a) Peoples' Biodiversity Register
 - (b) Community Gene-Seed-Grain Bank
12. Describe various steps involved in setting up of a
biovillage. 10
13. What is evergreen revolution ? Discuss various
ecological foundations of evergreen revolution. $3+7=10$
14. Write short notes on the following : $5+5=10$
- (a) Sustainability Model
 - (b) Village Knowledge and Village Resource
Centres

- 15.** Discuss opportunities and constraints for development intervention and livelihood in Himalayan regions. *5+5=10*
- 16.** Explain sustainable integrated farming system. Discuss its various approaches, with suitable examples. *3+7=10*
- 17.** Which reference to sustainable development, explain the following : *5+5=10*
- (a) Shifting Agriculture
 - (b) Eco-agriculture
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