

No. of Printed Pages : 3

MSD-016

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

Term-End Examination

June, 2023

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

Time : 3 Hours

Maximum Marks : 100

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

(ii) *Each question carries 10 marks.*

1. What is Sustainable Infrastructure ? Describe various approaches to sustainable infrastructure development. 10
2. Discuss sustainable approaches to public health and sanitation. 10
3. Describe the importance of 4R's in context of waste management. 10

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4. Explain the applications of remote sensing and GIS for sustainable development. 10
5. Describe the various processes involved in establishing a biovillage. 10
6. Discuss the role of community participation and social mobilization for setting up village knowledge centers. 10
7. What is Evergreen Revolution ? Explain the ecological foundations of evergreen revolution. 2+8
8. Describe the role of soil health, water and biodiversity for sustainable agriculture. 10
9. Describe the following in detail : $2\frac{1}{2}\times 4=10$
 - (i) Three pillars model
 - (ii) Capital stock model
 - (iii) The prism model
 - (iv) The egg model on sustainable development
10. What is integrated farming system ? Write a brief note on approaches to sustainable integrated farming system. 2+8

[3]

11. Discuss the role of traditional cultural landscape for livelihood security and sustainable development. 10
12. What is Natural Resource Management ? Describe the major components of NRM. 2+8
13. Give a detailed account of cooperatives, microfinance and market linkages in the context of sustainability. 10
14. Write short notes on any *two* of the following : 5×2=10
- (i) Rural technologies for sustainable development
 - (ii) Sanitation and public health
 - (iii) Food security and biovillage paradigm

MSD-016