

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

**Term-End Examination**

**December, 2015**

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

*Time : 3 hours*

*Maximum Marks : 100*

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**Note :** Answer *any ten* questions. Each question carries *equal* marks.

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1. Write briefly various approaches used for Infrastructure development. 10
2. Write a detailed note on preventive medicine. 10
3. Explain various sources of waste and waste treatment methods. 10
4. Discuss the Sustainability Sciences Models for reduction of waste. 10
5. Discuss the applications of remote sensing in Sustainability Science. 10
6. Write a short note on Geographic Information System. 10
7. Explain the Community Gene-Seed-Grain banks. 10

8. Explain the Three-tier Knowledge Network. 10
9. Discuss the steps involved in setting up of biovillage. 10
10. Give a detailed account of gains from Green Revolution. 10
11. Discuss the ecological foundations of Evergreen Revolution. 10
12. Write a short note on the following : 5x2=10  
(a) Organic Agriculture  
(b) Agriculturally Important Micro-Organisms
13. Explain the biovillage paradigm with suitable diagrams. 10
14. Explain the following linkages : 4x2.5=10  
(a) Lab to lab  
(b) Lab to land  
(c) Land to lab  
(d) Land to land
15. Write a short note on the following : 5x2=10  
(a) Three-Pillar Model  
(b) The Capital Stock Model
16. Explain the goals and determinants of sustainable development in Himalayan region. 10
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