

POST GRADUATE DIPLOMA IN SUSTAINABILITY SCIENCE (PGDSS)

Term-End Examination

December, 2015

MSD-011 : SUSTAINABILITY SCIENCE

Time : 3 hours

Maximum Marks : 100

- Note :** (i) Attempt **any ten** questions. Each question carries **10 marks**.
- (ii) Answer the following questions in about **500 words** each.

1. Elaborate the Maslow's Hierarchy of Needs. 10
2. Sustainability requires reconciliation of the social and economic demands with the finite nature of environmental resources. Elaborate. 10
3. Explain the concept of Sustainable Livelihood Security (SLS) with suitable examples. 10
4. The need of the hour is an 'Ethical pull' to 'Technological push'. Justify 10
5. Briefly explain the concept and linkages of ecological footprint, biocapacity and sustainable development. 5+5=10
6. Briefly explain the five dimensional sustainability triangle. 10

7. Explain the community gene, seed, grain, fodder and water banks model of MSSRF. 10
 8. Describe the various regimes of stakeholders ownership on natural resources and components of natural resources. 10
 9. Define 'Landscape Ecology'. Why landscape structure and function changes over time and across space ? 2+8=10
 10. Define the term 'Watershed'. Briefly explain any four major objectives of watershed management. 2+8=10
 11. Describe any five salient features of participatory development communication. 10
 12. Define Human Resource. Describe in detail the criteria adopted by UNDP for the construction of Human Development Index ? 10
 13. Write an essay on global trends in Environmental Education. 10
 14. Briefly explain the key points of Various technology systems that are essential for sustainability. 10
 15. What is Gross National Happiness (GNH) ? Explain its dimensions in brief. 2+8=10
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