

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

Term-End Examination

December, 2018

MSD-011 : SUSTAINABILITY SCIENCE

Time : 3 hours

Maximum Marks : 100

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- Note :**
- (i) *Attempt any ten questions. Each question carries 10 marks.*
 - (ii) *Answer the following questions in about 500 words each.*
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1. Why is there a need for paradigm shift from 'green revolution' to 'evergreen revolution'. Discuss in detail the concept of evergreen revolution proposed by Prof. M.S. Swaminathan. 10
2. Why is climate change one of the key issues to sustainable development? Explain with suitable examples. 10
3. Describe the structure of sustainability science as proposed by Olson and his team. 10
4. Explain in brief the key point of various technology systems that are essential for sustainability. 10
5. Analyse the linkages between changing life style and sustainability issues with suitable examples. 10

6. Define 'landscape ecology'. Why landscape structure and function change over time and across space ? Explain. 10
 7. Define the term 'watershed.' Explain any four major objectives of watershed management. 10
 8. Explain with suitable examples the concept and linkages of ecological foot print, biocapacity and sustainable development. 10
 9. "Sustainability requires reconciliation of the social and economic demands with the finite nature of environmental resource". Elaborate. 10
 10. Briefly explain the five dimensional sustainability triangle. 10
 11. Define human development. Describe in detail the criteria adopted by UNDP for the construction of Human Development Index. 10
 12. Write an essay on global trends in Environmental Education. 10
 13. What is Gross National Happiness (GNH) ? Explain dimensions in brief. 10
 14. Describe the various regimes of stake holder's ownership on natural resources and components of natural resources. 10
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