

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

**Term-End Examination**

**June, 2022**

**MSD-011 : SUSTAINABILITY SCIENCE**

*Time : 3 hours*

*Maximum Marks : 100*

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

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1. What are the basic needs for human survival according to Maslow ? How is the fulfilment of these needs related to ecosystem health ? 5+5
2. Explain the structure of sustainability science as proposed by Olson. 10
3. Who introduced the term Landscape Ecology ? List the principles of landscape ecology. Why does landscape structure change over time and scale ? 2+4+4
4. What is intra-generational equity ? Explain the need to adopt life cycle approach in ensuring health security among the masses. 5+5

5. Explain the components of evergreen revolution. Comment on the statement — “system approach and not commodity-centric approach works in an evergreen revolution.” 5+5
6. Define Environmental Ethics. Give examples to explain development ethics and its relevance in present day context. 2+8
7. Write short notes on the following : 5+5
- (a) Interpersonal Communication
  - (b) Traditional Media Tools
8. What is Integrated Watershed Management Approach ? Highlight the steps involved in watershed management. 5+5
9. Define Sustainable Development. Explain the social, economical and environmental dimensions of sustainable development. 1+9
10. Write a note on the essential components of technology. Explain how technology has influenced our lifestyle. 5+5
11. What are common property resources ? What measures can be taken to conserve these resources ? 5+5

12. Comment on the need to develop human resources for sustainability. Name any two human resource development indices. 8+2
13. Who are environmental refugees ? Why are women the primary victims of environmental degradation ? 4+6
14. Discuss the relevance of sustainability indicators in today's time. Write the limitations of two-dimensional indicators. 5+5
15. Explain the approaches of teaching environmental education. 10
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