

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

Term-End Examination

June, 2026

MSD-011 : SUSTAINABILITY SCIENCE

Time : 3 Hours

Maximum Marks : 100

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

(ii) All questions carry equal marks.

1. Describe Maslow's Hierarchy of needs with the help of suitable diagrams. 10
2. What are the central elements of sustainability science ? 10
3. Explain the inter-relationship between population and resources from sustainability point of view. 10

4. Discuss sustainable development and its three pillars. 10
5. How climate change is one of the main challenges to sustainable development ? 10
6. Explain the concept of evergreen revolution. How it can be achieved ? 5+5
7. What is sustainable livelihood security and sustainable livelihood security index ? 5+5
8. Discuss in detail the concept of INRM and CBNRM. 5+5
9. Define landscape ecology. Give principles and methods of studying landscape ecology. 2+8
10. Describe the importance, issues and challenges of watershed management. 4+3+3
11. Write shorts on any *two* of the following : 2×5
 - (a) Eco enterprises and biodiversity based livelihood approaches
 - (b) Indicators of sustainability
 - (c) Classification of natural resources

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12. What is gross national happiness index ?
List *nine* dimensions used for the
construction of Bhutan's GNHI. 6+4
13. What is environmental education ? Discuss
the need of environmental education for
sustainable development. 5+5
14. Explain the importance of technology for
achieving sustainability. 10

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