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**MSD-011**

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

**Term-End Examination**

**December, 2021**

**MSD-011 : SUSTAINABILITY SCIENCE**

*Time : 3 Hours*

*Maximum Marks : 100*

**Note :** Attempt any **ten** questions. Each question carries 10 marks. Answer each question in about **500** words.

1. Explain, how population explosion and poverty are intricately linked with each other. 10
2. Give examples to show that environmental awareness is deeply rooted in Indian culture. 10
3. What are the basic requisites of public participation in natural resource management ? 10

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4. What is sustainable technology ? What are the constraints in adopting sustainable technology ? 2 + 8
5. "Climate change is a threat to sustainable development." Explain your views on the statement. 10
6. Differentiate between integrated natural resource management and community based natural resource management. 10
7. Write short notes on the following : 5 each
  - (a) Engel coefficient
  - (b) Levels of Maslow's hierarchy of needs
8. Explain the concept of inter- and inter-generational equity with suitable examples. 10
9. Who initiated the idea of Gross National Happiness ? Enumerate the nine dimensions of Bhutan's Gross National Happiness Index. 1+9

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10. Critically evaluate sustainability livelihood security index. Describe its merits and demerits. 10
11. How do agricultural practices influence landscape diversity ? 10
12. Explain the sustainability hierarchy as proposed by Marshall Toffel. 10
13. List the indicators of sustainability. How relevant are these in current scenario ? 2+8
14. Comment on the dimensions of human development index as proposed by UNDP. 10