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**MSD-011**

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

**Term-End Examination**

**December, 2022**

**MSD-011 : SUSTAINABILITY SCIENCE**

*Time : 3 Hours*

*Maximum Marks : 100*

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**Note :** (i) Answer any **ten** of the following questions.

(ii) Each question carries equal marks.

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1. Define sustainability science. Explain the interdisciplinary and multidisciplinary nature of sustainability science. 2+8
2. How does population increase influence the availability of resources ? Explain how hunger and poverty lead to greater environmental degradation. 5+5

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3. What is climate change ? Describe the impact of climate change on agriculture. 3+7
4. Define Natural Resource Management. Critically comment on the precautionary approach in protecting natural resource base. 5+5
5. Explore the social dimension of sustainable development. Write a note on the five new dimensions of sustainability triangle. 5+5
6. Who coined the term lifestyle ? Describe how economic structure and economic success has resulted in lifestyle changes. 5+5
7. Write short notes on the following : 5+5
  - (a) Economic and social indicators of sustainability
  - (b) Sustainable livelihood security
8. Explain the components of human scale development approach. Differentiate between existential and axiological categories of needs. 5+5
9. What is the relevance of sustainability indicators in today's time ? Comment on the limitations of two-dimensional indicators. 5+5

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10. Describe sustainable technology. What are the constraints in adopting sustainable technologies ? 5+5
11. Establish the importance of communication in participatory research and development. How can we achieve effective communication strategies ? 5+5
12. Describe in detail the approaches of teaching environmental education. 5+5
13. Elucidate the role of coordination in developing sustainability approach. What are the two types of coordination ? 5+5
14. What is sustainable rural livelihoods ? Give examples. Why is knowledge improvement of local communities essential to drive economic benefit ? 3+2+5
15. What is watershed ? What are the characteristics and functions of watershed ? 2+8

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