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MSD-021

**MASTER OF ARTS
(SUSTAINABILITY SCIENCE)
(MASS)**

**Term-End Examination
December, 2025**

MSD-021 : MOUNTAIN AND HILL ECOSYSTEM

Time : 3 Hours

Maximum Marks : 100

Note : Answer any *ten* questions. All questions carry equal marks.

1. What are the different types of mountains on the basis of mode of origin ? Give examples. 10
- 2, Write short notes on the following : 5+5
 - (a) Geomorphic characteristics of mountains
 - (b) Mountain belts related to volcanism

3. Discuss the role of mountains on food security and water security in the downstream region. 10
4. Explain the different classifications of agro-forestry system based on the nature of components. 10
5. What are the major livestock composition in the Himalayan region ? Write the medicinal use of any *four* animals and their parts or products in traditional therapy by Bhotiya tribes of Uttarakhand. 2+8
6. Define the following terms : 2×5=10
 - (a) Pomology
 - (b) Floriculture
 - (c) Apiculture
 - (d) Adventure tourism
 - (e) Ecotourism
7. What is 'Disaster' ? Explain the different types of disasters. 2+8

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8. Discuss any *two* major institutional mechanisms of Government of India to fight climate change. 10
9. Define the term 'Sustainable Development'. Explain the concept of Inclusive Green Growth. 4+6
10. Write an essay on United Nations Convention to Combat Desertification. 10
11. Write a note on Agenda-21 and Sustainable Mountain Development. 10
12. What are METT (Management Effectiveness Tracking Tool) and MEE (Management Effectiveness Evaluation) ? Explain. 5+5

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