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MSD-021

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

**Term-End Examination
June, 2024**

MSD-021 : MOUNTAIN AND HILL ECOSYSTEM

Time : 3 Hours

Maximum Marks : 100

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

1. What is Mountain ? List its major geomorphic characteristics. 2+8
2. Explain the structure and functions of biodiversity in the mountain ecosystem. 5+5
3. Discuss any *two* upstream ecosystem services to the downstream communities. 5+5
4. What are the major objectives of National Agroforestry Policy of India, 2014 ? Explain. 10
5. Write short notes on the following : 5+5
 - (a) Shelterbelt and windbreaks
 - (b) Alley cropping

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6. Explain the Livestock composition in the Himalayan mountains and its significance. 10
7. Write short notes on the following : 10
 - (a) Fish culture in the mountainous region
 - (b) Pomology
8. Explain the role of tourism sector in the mountain livelihood system of India. 10
9. What are the components of State Disaster Management Plan ? 10
10. Explain Multilateral conventions and International Environment agreements with suitable examples. 5+5
11. What are the major activities emphasized in Agenda-21 for strong theming knowledge an momtain ecology. 10
12. Discuss the role of Mountain Partnership in sustainable Mountain development. 10