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MSD-021

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

Term-End Examination

June, 2026

MSD-021 : MOUNTAIN AND HILL ECOSYSTEM

Time : 3 Hours

Maximum Marks : 100

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

1. Discuss the various modes of origin of mountains with suitable examples for each type. 10
2. Highlight the significance of the Western Ghats as a biodiversity hot spot. List the primary factors that contribute to its biodiversity hot spot. 5+5

3. Identify and discuss the challenges and strategies for ensuring equitable sharing of river resources between upstream and downstream regions particularly in transboundary river system. 10
4. Elucidate the shift from traditional subsistence agriculture to the cultivation of cash crops in the Himalayan region and its socio-economic implications. 10
5. Define ecotourism and discuss its potential benefits and risks in mountainous regions. 10
6. Discuss the significance of the mountain partnership initiatives and other international efforts aimed at promoting sustainable mountain development. 10
7. Explain the concept of climate change adaptation and mitigation with special reference to mountain ecosystems. 10
8. What is inclusive green growth ? Discuss its significance and challenges. 4+6

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9. Evaluate the importance of public participation, transparency and access to information in achieving sustainable development. 10
10. Explain how traditional knowledge of Indigenous Communities contributes to the sustainable management of mountain ecosystems. 10
11. Analyse the importance of integrating ecological monitoring tools with international conventions with suitable example. 10
12. Discuss any *two* types of ecological monitoring with example. 5+5

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