

**M. SC. (ENVIRONMENTAL  
SCIENCE) (MSCENV)**

**Term-End Examination**

**June, 2025**

**MEV-014 : SUSTAINABLE NATURAL  
RESOURCE MANAGEMENT**

*Time : 3 Hours*

*Maximum Marks : 100*

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**Note :** (i) Answer any **ten** questions.

(ii) All questions carry equal marks.

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1. Give an account of natural resources, their types, valuation and use of natural resources. 10
2. Differentiate between metallic and non-metallic minerals and their uses. 10

3. What are the natural source of fresh water ?

Discuss challenges and threats to availability of water resources. 4+6=10

4. What is deforestation ? Describe major causes and consequences of deforestation.

2+8=10

5. Define Agrobiodiversity. Explain its components and key strategies to attain sustainable agriculture. 2+8=10

6. Write short notes on any *two* of the following : 2×5=10

(i) Livestock and wildlife resources

(ii) Forest resources of India and their management

(iii) Land capability classes and soil conservation practices

7. Write a note on aquaculture in India and its major constraints and management. 10
8. Describe renewable and non-renewable sources of energy with suitable examples. 10
9. Explain in detail the various ways for utilization of solar energy. 10
10. Describe principle and working of hydropower plants. Write advantages and disadvantages of hydropower systems. 3+7=10
11. Write short notes on any *two* of the following : 2×5=10
- (i) Geothermal energy
  - (ii) Wind energy
  - (iii) Aquifer thermal energy storage
12. What are the major forms of bioenergy ? Discuss potential of various feedstocks for bioenergy production. 3+7=10

13. Explain natural resource conservation and natural resource accounting. Discuss different phases and steps in natural resource planning. 5+5=10
14. Discuss any *five* schemes or programmes related to natural resource conservation and sustainable livelihood. 10

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