

Roll No.

Total Pages : 03

CMDE/M-20

4690

**NATURAL RESOURCE MANAGEMENT
MES-201**

Time : Three Hours]

[Maximum Marks : 80

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. Q. No. **1** is compulsory. All questions carry equal marks.

1. Short Answer Type Questions : 8×2=16

- (a) What do you mean by resource ?
- (b) What is rain water harvesting ?
- (c) What does 3-R approach stands for ?
- (d) What is a rangeland ?
- (e) What is geothermal energy ?
- (f) What is ecotourism ?
- (g) What are petro-crops ?
- (h) What do you mean by resource degradation ?

Unit I

2. (a) What are renewable and non-renewable resources ?

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- (b) Enumerate impact of human on natural resources. **8**
- (c) Briefly explain watershed management. **5**
- 3. (a) What is soil erosion ? Explain different types of soil erosion. Give different conservation practices to control soil erosion. **13**
- (b) Differentiate between surface water and ground water. **3**

Unit II

- 4. (a) What do you understand by solar energy ? Enumerate solar energy harnessing devices with necessary diagrams. **12**
- (b) Enumerate bio-energy prospects in India. **4**
- 5. (a) What is mineral resource conservation ? **6**
- (b) What is Leaching ? Explain bacterial leaching of metals from their ores. **10**

Unit III

- 6. (a) Give an account on forest resources of India. **8**
- (b) Give general account on fisheries and marine resources. **8**
- 7. (a) Explain different grasslands and their management in Indian context. **8**
- (b) Briefly explain primary and secondary forest products. **8**

Unit IV

- 8. (a) How are market, environment and natural resources interrelated ? **8**
- (b) Explain economically sustainable forest management design. **8**
- 9. (a) Explain market based mechanisms for environmental protection. **8**
- (b) Explain efficient design for renewable energy resources. **8**