

Code No: R204101R

R20

SET - 1

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY GURAJADA VIZIANAGARAM
IV B. Tech I Semester Advanced Supplementary Examinations March 2025
ENVIRONMENTAL MANAGEMENT

(Open Elective)

Time: 3 hours

Max. Marks: 70

Answer any **FIVE** Questions **ONE** Question from **Each unit**
All Questions Carry Equal Marks

UNIT-I

1. a) List different energy resources and explain the process of electricity generation. [7M]
b) What are the different methods for conserving and managing energy resources? [7M]
(OR)

2. a) Discuss a case study of oil pollution and its environmental consequences. [7M]
b) Explain the impact of oil pollution on marine and coastal ecosystems. [7M]

UNIT-II

3. a) Discuss the importance of macro and micronutrients for plant growth. [7M]
b) Explain the difference between sandy and clayey soils with examples. [7M]
(OR)

4. a) Describe the different methods used to manage and prevent soil erosion? [7M]
b) What are the different types of agriculture? Explain with examples. [7M]

UNIT-III

5. a) Analyze the water cycle with a neat diagram? [7M]
b) Explain the importance of the freshwater supply system. [7M]
(OR)

6. a) What are the major sources of water pollution? Explain. [7M]
b) What are water-related diseases, and how can they be prevented? [7M]

UNIT-IV

7. a) What is the natural greenhouse effect? Explain its importance. [7M]
b) Explain the formation and effects of smog. [7M]
(OR)

8. a) Explain the concept of urban heat islands and their environmental impact. [7M]
b) Describe the causes and effects of ozone layer depletion? [7M]

UNIT-V

9. a) What are earthquakes and volcanoes? Explain their causes. [7M]
b) Discuss the different ways to manage the impacts of natural hazards. [7M]
(OR)

10. a) What opportunities do natural hazards present for human development? [7M]
b) Explain how proper planning can reduce the impact of disasters. [7M]
