

**III B. Tech I Semester Regular/Supplementary Examinations, December -2023**  
**ENVIRONMENTAL MANAGEMENT**

(Com to CE,ME,CSE,AGE,CS,CSE(AI),CSE(AIML),CSE(CS),CSE(DS))

Time: 3 hours

Max. Marks: 70

Answer any **FIVE** Questions **ONE** Question from **Each unit**

All Questions Carry Equal Marks

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**UNIT-I**

1. a) What are the various resources available for generating the electric energy? [7M]  
Which one is cheaper and why?
- b) Write a detailed notes on Oil pollution and its impact on coastal ecosystem. [7M]

(OR)

2. a) What do you mean by energy demand? Illustrate the same with suitable examples and neat drawings. [7M]
- b) Outline the conservation and management of energy resources. [7M]

**UNIT-II**

3. a) Describe various compositions of soils present in India. [7M]
- b) How the sandy and clayey soils are differentiated? How they are crucial for the agriculture? [7M]

(OR)

4. a) Write a detailed notes on **soils for plant growth**. [5M]
- b) Explain the various impacts of Agriculture on environment and people. [9M]

**UNIT-III**

5. a) Explain with suitable figures how the global water resources are distributed? [8M]  
Why the water management is important?
- b) Explicate the natural fresh water supply system. [6M]

(OR)

6. a) What are the different ways of water usage? Explain briefly. [5M]
- b) Draw neat sketch of global water cycle and locate various vital components. [9M]  
What are the various factors influencing this cycle?

**UNIT-IV**

7. a) What are the causes of ozone layer depletion and suggest some of the remedies to control the depletion? [9M]
- b) Explain briefly natural green house gas effect. [5M]

(OR)

8. What is air pollution? Explain its sources, effects on plants (vegetation) and human beings? What are the control measures to reduce air pollution? [14M]

**UNIT-V**

9. a) Disaster is always horrible and bring huge damage to the property and loss of life in a region. As a Civil Engineer, why don't you completely agree with the above statement? How a nation will benefit out of it? [9M]
- b) What are the various challenges involved in executing the disaster mitigation strategies? [5M]

(OR)

10. a) How the draughts are classified? Explain each type as per their sequence. [9M]
- b) Write a detailed notes on earthquake and volcanos. [5M]



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**UNIT-I**

1. a) Explain different electric energy generation resources with suitable examples for each. Which one is ecofriendly and why? [9M]
- b) What do you mean by oil pollution? Explain briefly. [5M]
- (OR)
2. a) What are the various energy resources conservation policies in use? What are their merits and limitations? [7M]
- b) Describe the severe impacts of oil pollution on marine ecosystems with suitable examples. [7M]

**UNIT-II**

3. a) Illuminate on macro and micro nutrients for plant growth. [7M]
- b) How the sandy and clayey soils are differentiated? How they are crucial for the agriculture? [7M]
- (OR)
4. a) Describe various compositions of soils present in India. [7M]
- b) Explain the various adverse impacts of Agriculture on people and environment. [7M]

**UNIT-III**

5. What is water pollution? State its sources and causes. Discuss the various strategies adopted for conservation of water? [14M]
- (OR)
6. a) Suggest good managing strategies regards to controlling the water related diseases. [6M]
- b) Draw a neat sketch of global water cycle and mention various processes present in it and explain any two processes. [8M]

**UNIT-IV**

7. Explain in detail the term atmospheric pollution. What are its causes? Explain any two vital causes with suitable examples. [14M]
- (OR)
8. a) Describe the structure and composition of the atmosphere with neat sketches. [9M]
- b) Explain briefly natural green house gas effect. [5M]

**UNIT-V**

9. a) If you become a leading member in the project committee, what kinds of economical and implementable strategies you will suggest for managing the natural hazards? [7M]
- b) What are the various opportunities presented by the natural hazards. [7M]
- (OR)
10. a) Write short notes on the impact of natural hazards. [5M]
- b) An environmental professor says floods are also equally good for the society. Write a story on supporting his opinion. [9M]

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**UNIT-I**

1. With a case study, demonstrate the oil pollution and its impact on the environment and various ecosystems. [14M]  
(OR)
2. a) What are the different management techniques available to manage the oil pollution? Explain [9M]  
b) What is energy demand? Explain its importance. [5M]

**UNIT-II**

3. a) Illuminate on macro and micro nutrients for plant growth. [7M]  
b) How the sandy and clayey soils are differentiated? How they are crucial for the agriculture? [7M]  
(OR)
4. a) Write a detailed notes on **soils for plant growth**. [5M]  
b) What do you mean by soil erosion? Describe various geological agents causing the soil erosion along with their mechanisms. [9M]

**UNIT-III**

5. a) Explain with suitable figures how the global water resources are distributed? Why the water management is important? [7M]  
b) Explicate the natural fresh water supply system. [7M]  
(OR)
6. What is water pollution? State its causes. Discuss the various strategies adopted for conservation of water? [14M]

**UNIT-IV**

7. What is acid rain? What are the causes, effects and controlling measures of acid rain? Explain in detail. [14M]  
(OR)
8. a) Illuminate the atmospheric pollution and its adverse impacts on the human and vegetation with suitable examples. [9M]  
b) Explain the term enhanced greenhouse effect. [5M]

**UNIT-V**

9. a) How the draughts are classified? Explain each type as per their sequence. [7M]  
b) Write a detailed notes on earthquake and volcanos. [7M]  
(OR)
10. a) Flood is a disaster or natural hazard? Explain your answer. [7M]  
b) What are the various impacts of natural hazards on human and environment? [7M]



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## UNIT-I

1. Demonstrate the oil pollution and its impact on the environment and various ecosystems with a case study. [14M]

(OR)

2.
  - a) Explain various energy resources available for generating the electricity. [9M]
  - b) Write brief notes on conservation and management of energy resources. [5M]

## UNIT-II

3. a) Differentiate between sandy and clayey soils. How they occur? [5M]  
b) Describe various impacts of inorganic agriculture practice on the people and environment. [9M]

(OR)

4. Differentiate the terms accelerated erosion and natural erosion. How they occur? What are the various controlling measures of soil erosion? Explain. [14M]

### UNIT-III

5.
  - a) Elaborately describe the water quality and availability. [7M]
  - b) What are the remedial strategies used for managing the pollution of fresh water? Explain. [7M]

(OR)

6. a) What are the different ways of water usage? Explain briefly. [5M]  
b) Draw neat sketch of global water cycle and locate various vital components. [9M]  
What are the various factors influencing this cycle?

## UNIT-IV

7. a) Describe the structure and composition of the atmosphere with neat sketches. [9M]  
b) What do you mean by urban heat Island? How to quantify it? [5M]

(OR)

8. a) Explain Ozone layer depletion. What are the causes, effects and preventive measures of Ozone depletion? [10M]  
b) Define the term atmospheric pollution. How to measure it? List out the causes of the same. [4M]

## UNIT-V

9. a) Distinguish the terms hazard and disaster with suitable examples. [5M]  
b) How to manage the natural hazards like floods? Elaborately discuss on it. [9M]

(OR)

10. a) Hazard is always making a region or society more vulnerable is it true? If yes, are there any positive outcomes of it? Explain. [10M]  
b) Explain the term hydrological extremes. What does it refers? [4M]