

Code No: **R204101R**

R20

Set No. 1

IV B.Tech I Semester Regular Examinations, January – 2024

ENVIRONMENTAL MANAGEMENT

(Civil Engineering)

Time: 3 hours

Max. Marks: 70

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

UNIT - I

- 1 a) Why is it necessary for energy demand? Discuss? [7]
b) Explain in detail about the conservation of energy resources. [7]
(OR)
- 2 a) Discuss with the help of a case study of oil pollution? [7]
b) Explain the impact of oil pollution on marine systems. [7]

UNIT - II

- 3 a) Discuss the different compositions of soils? [7]
b) Differentiate between sandy and clayey soils. [7]
(OR)
- 4 a) Describe the impact of agriculture on environment? [7]
b) Explain the causes and effects of soil erosion. [7]

UNIT - III

- 5 a) What is water cycle? Explain in detail about global water distribution? [7]
b) Describe the water usage in different ways? [7]
(OR)
- 6 a) What is water pollution? Discuss effects of water pollutions? [7]
b) Explain in detail about the managing water related diseases. [7]

UNIT - IV

- 7 a) What is Green house effect and global Warming? Discuss it. [7]
b) Describe the structure and composition of atmosphere. [7]
(OR)
- 8 a) What is Acid rain? Have human activities been responsible. Discuss it. [7]
b) Describe the impact of atmospheric polluting on humans. [7]

UNIT - V

- 9 a) Differentiate between hazard and disaster. [7]
b) What is earthquake? Describe the causes and effects of earthquake? [7]
(OR)
- 10 a) Describe the managing the impact of natural hazards? [7]
b) Describe the causes of floods? [7]

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Set No. 2

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ENVIRONMENTALMANAGEMENT

(Civil Engineering)

Time: 3 hours

Max. Marks: 70

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

UNIT - I

- 1 a) What are the different ways of generation of electricity? Discuss it? [7]
b) Describe the procedure of management of energy resources. [7]
(OR)
- 2 a) Define oil pollution. Describe the impact of oil pollution on coastal eco systems. [7]
b) Explain the management of oil pollution? [7]

UNIT - II

- 3 a) Explain in details the different soils for plant growth? [7]
b) What is soil erosion? Discuss the management steps of soil erosion? [7]
(OR)
- 4 a) Explain the macro and micro nutrients for plant growth? [7]
b) Describe the different types of agriculture? [7]

UNIT - III

- 5 a) Explain in detail the fresh water supply system with neat sketch? [7]
b) Discuss the water availability? [7]
(OR)
- 6 a) How can we control water pollution? [7]
b) Describe the impact of water pollution? [7]

UNIT - IV

- 7 a) What is atmospheric pollution? Describe the various causes of atmospheric pollution. [7]
b) Discuss the natural greenhouse effect. [7]
(OR)
- 8 a) Explain the impact of atmospheric pollution on Humans & plants? [7]
b) Explain the managing of atmospheric Pollution. [7]

UNIT - V

- 9 a) Describe the causes and effects of drought? [7]
b) Explain the impact of natural hazards? [7]
(OR)
- 10 a) What are the opportunities presented by hazards? Does it natural hazards discuss it? [7]
b) Discuss the Causes of volcanoes? [7]

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Set No. 3

IV B.Tech I Semester Regular Examinations, January – 2024

ENVIRONMENTAL MANAGEMENT

(Civil Engineering)

Time: 3 hours

Max. Marks: 70

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

UNIT - I

- 1 a) Define energy demand. Explain in detail about the energy resources? [7]
b) Describe the conservation and management of energy resources? [7]
(OR)
- 2 a) Define Energy Demand? Discuss importance of energy demand on global scenario. [7]
b) Explain briefly about: i) Electricity generation through solar panels. [7]
ii) Electricity generation through wind mills.

UNIT - II

- 3 a) Name the Macro Nutrients? Discuss role N, P, K for plant growth. [7]
b) What is the type of agriculture system followed in rural India? Explain the Pros and Cons of the present agriculture system. [7]
(OR)
- 4 a) What is agriculture? Explain the different types of agriculture? [7]
b) Discuss the management of soil erosion? [7]

UNIT - III

- 5 a) What are water quality standards of Municipal water? Write short note on importance of water Quality. [7]
b) Write short note on managing of water related diseases with special focus on cholera. [7]
(OR)
- 6 a) What is water pollution? Describe the sources of water pollution? [7]
b) What is the role of an individual can play in managing with related diseases? [7]

UNIT - IV

- 7 a) Is ozone layer depletion a threat to living beings? Discuss it. [7]
b) Discuss the urban heat islands? [7]
(OR)
- 8 a) What is Smog? Discuss case study of Losangle's Smog. [7]
b) What is green house effect? How do you green house affect. Discuss it? [7]

UNIT - V

- 9 a) What is meant by hazard and disaster? Explain the different types of disasters. [7]
b) What is the role of an individual in the management of natural hazard? [7]
(OR)
- 10 a) How the intensity of Earth Quake can be measured. Explain an action plan/rescue plan to reduce the impact of earthquake. [7]
b) What are the causes of droughts? Discuss it? [7]

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Set No. 4

IV B.Tech I Semester Regular Examinations, January – 2024

ENVIRONMENTAL MANAGEMENT

(Civil Engineering)

Time: 3 hours

Max. Marks: 70

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

UNIT - I

- 1 a) What is tidal Energy? How Electricity can be generated from tides. [7]
b) Describe merits and demerits and demerits of wind energy? [7]
(OR)
- 2 a) Explain the impact of oil pollution in marine and coastal ecosystems? [7]
b) Write a report on the Chennai oil spill accident case study. [7]

UNIT - II

- 3 a) How the composition of soil will affect the plant growth? Discuss in detail [7]
& state the reason of it.
b) What are Micro nutrients? Explain their role in plant growth? [7]
(OR)
- 4 a) Discuss the impact of agriculture on environment and people? [7]
b) In the current Scenario, the agriculture practices gets modernized. How it affects the environment either positive or negative scale? Justify. [7]

UNIT - III

- 5 a) What are the sources of fresh water? Discuss it? [7]
b) Describe about water quality and availability of it? [7]
(OR)
- 6 a) How to Manage Hepatitis – A as water related disease? Describe. [7]
b) Explain in the detail the managing pollution of fresh water? [7]

UNIT - IV

- 7 a) Write short note on Ozone layer depletion. [7]
b) What is enhanced green house effect? Discuss it? [7]
(OR)
- 8 a) Where we can observe urban heat Islands? State the various Reasons for formation of urban heat Islands. [7]
b) Tabulate the differences of natural green house effect and enhanced green effect. [7]

UNIT - V

- 9 a) What are the causes and effects of floods discuss it? [7]
b) Write an action plan to eradicated the drought with effective Management Techniques methods. [7]
(OR)
- 10 a) Describe the causes and effects of earthquake? [7]
b) Write case study of 'kedharnath flood – 2013' and How they effectively recovered with minimum effects. [7]