

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE - APRIL 2021.

ENVIRONMENTAL SCIENCE AND DISASTER MANAGEMENT

(Maximum Marks : 100)

[Time : 3 hours]

PART - A
(Maximum marks: 10)

Marks

I. Answer all questions in one or two sentences. Each question carries 2 marks.

1. List any two renewable sources of energy.
2. What do you mean by incineration
3. Recall Omnivores.
4. List the sources of solid waste
5. List out the flood mitigation methods.

(5x2=10)

PART - B
(Maximum Marks : 30)

II Answer any five of the following questions . Each question carries 6 marks.

1. Explain the limitations of wind energy.
2. Discuss the various factors affecting an eco system.
3. Explain the different types of ecological pyramid.
4. Explain the characteristics of hazardous wastes.
5. Briefly discuss about earthquake.
6. Write a short note on food chain.
7. Discuss the working of electrostatic precipitator.

[5x6 =30]

PART - C
(Maximum marks : 60)

(Answer one full question from each unit. Each full question carries 15 marks)

UNIT I

III Illustrate the role of non conventional energy resources towards the protection of environment.

(15)

OR

IV (a) Discuss the advantages of hydel power over thermal power.

(7)

(b) Discuss the pros and cons of use of wind as an energy source.

(8)

UNIT - II

V Explain the structure and functions of an Aquatic ecosystem. (15)

OR

VI (a) Explain about food chain with a neat sketch. (7)

(b) Discuss about the biotic components of a forest ecosystem. (8)

UNIT - III

VII (a) Explain the control measures of soil pollution (8)

(b) Explain different methods of disposal of solid waste. (7)

OR

VIII (a) Explain the various hazardous wastes. (7)

(b) Explain the sources of thermal pollution. (8)

UNIT - IV

IX (a) Discuss about the three stages of disaster management. (9)

(b) Explain about hazard zonation map. (6)

OR

X (a) Illustrate the causes of occurrence of land slide. (7)

(b) Compare hazards and disaster. (8)
