

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE , APRIL – 2023**

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. What is Mining?
2. What is Eutrophication?
3. Define Ecosystem.
4. What is Air pollution?
5. Define Primary and Secondary mitigation.

(5x2=10)

PART – B
(Maximum Marks : 30)

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

1. What are the consequences of deforestation?
2. What are the causes of desertification?
3. Explain the types of Ecological succession.
4. What are the characteristics of a forest ecosystem?
5. Distinguish between point and non point sources of water pollution.
6. What are the sources of Air pollution?
7. Define Hazard. What are the types of manmade hazard?

(5x6=30)

PART – C

(Maximum Marks : 60)

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

UNIT – I

III. (a) What are the environmental effects of extracting mineral resources and the remedial measures to reduce environmental effects? (8)

(b) What are the effects due to adoption of modern agricultural techniques? (7)

OR

IV. (a) What are the causes for land degradation? What are its effects? (8)

(b) What are the positive and negative effects of artificial fertilizers? (7)

UNIT – II

V. (a) What is food chain? What are its types and significance? (8)

(b) Explain the ecological pyramid. (7)

OR

VI. (a) Describe the structure of forest ecosystem. (8)

(b) What are the features and types of Grass land ecosystem. (7)

UNIT –III

VII. (a) What are the effects of Air pollution? (7)

(b) Describe the secondary treatment method to control water pollution. (8)

OR

VIII. (a) What are the control measures of urban and industrial waste? (8)

(b) Explain the role of an individual in prevention of pollution. (7)

UNIT – IV

IX. (a) What are the causes and adverse effects of flood? (7)

(b) Explain the various operations to be carried out during emergency phase of disaster management. (8)

OR

X. (a) Distinguish between Hazard and Disaster. (8)

(b) Explain Hazard zonation map. (7)
