

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE, APRIL - 2025**

ENVIRONMENTAL SCIENCE AND DISASTER MANAGEMENT

[Maximum marks: 100]

[Time: 3 Hours]

PART – A

Maximum marks: 10

I. (Answer *all* the questions in one or two sentences. Each question carries **2** marks)

1. List any four resources supplied by forest.
2. State the term ecosystem.
3. Define environmental pollution.
4. What is meant by biomes?
5. Define hazard.

(5 x 2 = 10)

PART – B

Maximum marks: 30

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

1. Explain the environmental impacts due to mining.
2. List out the impact on food production due to adoption of modern agricultural practices.
3. Describe the ecological pyramid.
4. State the various measures to control marine pollution.
5. Explain food chain and food web.
6. Describe the relationship between hazard, disaster, vulnerability, risk and capacity.
7. Describe the disaster management operation cycle.

(5 x 6 = 30)

PART – C

Maximum marks: 60

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

UNIT – I

III. Explain the problems due to deforestation.

(15)

OR

- IV.** Describe the advantages and disadvantages due to large dams. (15)

UNIT - II

- V.** Explain the structures and characteristic features of grassland ecosystem. (15)

OR

- VI.** Explain the phenomenon ecological succession. (15)

UNIT - III

- VII.** Explain the effects of water pollution. (15)

OR

- VIII.** (a) Explain the effects due to solid waste pollution. (10)
(b) Explain the effects of noise pollution. (5)

UNIT – IV

- IX.** Explain the causes for different types of disasters. (15)

OR

- X.** (a) Discuss Bhopal disaster. (9)
(b) Explain relationship between disaster and development. (6)
