

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE, NOVEMBER - 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. Define resource. What are the renewable and non renewable resources?
2. What are the causes of land degradation?
3. Define food web with suitable example.
4. Identify the two factors contributing water pollution.
5. Differentiate between hazard and disaster. (5 x 2 = 10)

PART – B

Maximum marks: 30

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

1. What are the environmental and social impacts of mineral extraction?
2. List the causes and effects of water logging.
3. Define ecological succession. Explain the two types of ecological succession.
4. List the reasons for loss of biodiversity.
5. Identify the factors contributing noise pollution.
6. Define nuclear hazard. What are the effects due to nuclear pollution?
7. Write the components of risk management. (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.** (a) What are the ecological and economical importance of forests? (8)
- (b) Describe the advantages and disadvantages due to large dams. (7)

OR

- IV.** (a) Describe equitable use of resources for sustainable life cycle. (8)
(b) List the factors affecting soil erosion. (7)

UNIT - II

- V.** (a) Explain about the different components of forest ecosystem. (8)
(b) Explain the role of producers, consumers and decomposers. (7)

OR

- VI.** (a) Define ecological pyramid and its various types. (8)
(b) Explain different hierarchical levels of biodiversity. (7)

UNIT - III

- VII.** (a) What are the different types and causes of solid wastes? (8)
(b) Write the causes and sources of air pollution. (7)

OR

- VIII.** (a) Describe the sources and effects of thermal pollution. (8)
(b) Describe the role of individual in prevention of pollution. (7)

UNIT - IV

- IX.** (a) Describe the various stages of disaster management. (9)
(b) Explain the relationship between disaster and development. (6)

OR

- X.** (a) What are the precautionary measures to be taken in the pre stage and post stage of earth Quake? (9)
(b) Explain TREM card and its use during accidents involving hazardous goods transport. (6)
