

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE, APRIL – 2021**

ENVIRONMENTAL SCIENCE AND DISASTER MANAGEMENT

[Maximum Marks: 75]

[Time: 2.15 Hours]

PART-A

(Answer *any three* questions in one or two sentences. Each question carries 2 marks)

I

1. List various mineral resources.
2. Define the term ecological succession.
3. List the common methods of energy recovery and disposal of solid waste.
4. List the noise control techniques.
5. Define the term vulnerability. (3×2=6)

PART-B

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

II

1. Explain the problems due to over exploitation of natural resources.
2. Describe the importance of energy conservation.
3. Explain the types of forest ecosystem.
4. Explain the characteristic features of aquatic ecosystem.
5. Discuss the control devices of air pollution.
6. Explain the relationship between disaster and development.
7. Describe the disaster management Act-2005. (4×6=24)

PART-C

(Answer *any of the three units* from the following. Each full question carries 15 marks)

UNIT-I

- III (a) Describe the advantages and disadvantages due to large dams. (8)
- (b) Explain the environmental impacts due to mining. (7)

OR

- IV (a) Explain the problems due to the use of artificial fertilizers and pesticides. (8)
(b) Define sustainable development and state its importance. (7)

UNIT – II

- V (a) Explain Biomagnification and its impacts. (8)
(b) Explain the different ecological pyramids. (7)

OR

- VI (a) Explain characteristic features of desert ecosystem. (8)
(b) Describe the importance of biodiversity and the need to conserve it. (7)

UNIT – III

- VII (a) State the role of thermal pollution in global warming. (8)
(b) Explain Environmental impact assessment. (7)

OR

- VIII (a) Describe various measures to control marine pollution. (8)
(b) Explain any major nuclear hazard that occurred in the world. (7)

UNIT – IV

- IX (a) Explain the disaster management operation cycle. (8)
(b) Explain Institutional framework of disaster management in India at national level. (7)

OR

- X (a) Describe the role of hazard zonation maps in disaster management. (8)
(b) Explain various preventive measures for disaster risk reduction. (7)
