

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/  
MANAGEMENT/COMMERCIAL PRACTICE, APRIL – 2020**

**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 the biotic components of ecosystem
2. Define deforestation
3. List the main causes of soil pollution
4. Define vulnerability
5. List any two institutional frame work of disaster management in our state

(3x2=6)

**PART-B**

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

**II**

1. Recall The Bhopal disaster
2. Explain Global Warming
3. Summarize Ecological Pyramids
4. Discuss the causes of desertification
5. Explain the three stages of disaster management cycle
6. List the characteristics of forest ecosystem
7. Briefly explain Salinity

(4x6=24)

### PART-C

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

#### UNIT - I

III. a) Identify the different methods of harvesting solar energy and explain any two methods 7

b) Explain (i) Flood (ii) Drought 8

OR

IV. a) List and explain three renewable energy sources 8

b) Classify the advantages and the disadvantages due to large dams 7

#### UNIT - II

V. a) Explain the types, structure and characteristic features of forest ecosystem 10

b) Explain the phenomenon ecological succession 5

OR

VI. a) Describe the importance of biodiversity 5

b) Explain the structure and characteristic feature of desert ecosystem 10

#### UNIT - III

VII. a) Illustrate any three methods to control air pollution 10

b) Identify the factors contributing thermal pollution 5

OR

VIII a) Explain Environmental Impact Assessment (EIA) 5

b) Identify the various categories of solid wastes and explain 10

#### UNIT - IV

IX a) Distinct between hazard and disaster 7

b) Explain new and emerging approaches in disaster management 8

OR

X. a) Explain institutional framework of disaster management in national level 8

b) Explain the communal based disaster preparedness 7