

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE, NOVEMBER-2020

ENVIRONMENTAL SCIENCE AND DISASTER MANAGEMENT

[Maximum marks: 75]

(Time: 2.15 Hours)

PART – A

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

1. List two sources of fresh water.
2. Define Eutrophication.
3. List two abiotic components of an ecosystem.
4. Define pollution.
5. Write the full form of GIS and MIS (3 x 2 = 6)

PART – B

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

1. Explain the problems due to de-forestation
2. Describe the problems due to the use of artificial fertilizers and pesticides
3. Explain structure of grassland ecosystem
4. Define global warming and explain the effects due to that.
5. Explain causes and effect of air pollution.
6. Differentiate hazard and disaster
7. State the use of TREM card in accidents involving hazardous goods transport (4 x 6= 24)

PART – C

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

UNIT –I

- III.(a) Describe social and ecological problems due to dams. (7)
(b) Explain the environmental impacts due to mining (8)

OR

- IV. (a) Distinguish between renewable and non renewable sources of energy (7)
(b) Describe the role of an individual in conservation of resources and achieving Sustainable development (8)

UNIT-II

- V. (a) Explain ecological pyramid (7)
(b) Explain food chain and food web (8)

OR

- VI. (a) Explain Ecological Succession and differentiate primary and secondary successions (7)
(b) Explain Structure and functions of Forest Ecosystem (8)

UNIT-III

- VII.(a) Explain causes and effect of water pollution (7)
(b) Identify the factors contributing thermal pollution (8)

OR

- VIII. (a) Explain the effects of noise pollution (7)
(b) Define and classify solid waste. List steps involved in solid waste management. (8)

UNIT-IV

- IX. (a) Differentiate vulnerability and risk (7)
(b) Explain disaster management operation cycle (8)

OR

- X. (a) Explain about community based disaster preparedness (7)
(b) Define safety audits and the need of conducting safety audit (8)
