

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE — OCTOBER, 2018

ENVIRONMENTAL SCIENCE AND DISASTER MANAGEMENT

[Time : 3 hours

(Maximum marks : 100)

PART — A

(Maximum marks : 10)

Marks

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

1. Define Eutrophication.
2. What is an ecological pyramid ?
3. Define air pollution.
4. What is a landslide ?
5. Define vulnerability.

(5×2 = 10)

PART — B

(Maximum marks : 30)

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

1. Explain landslide and its causes.
2. Discuss various problems affecting food security.
3. Explain different types of ecosystem.
4. What are the sources of Marine pollution ?
5. Describe various sources of thermal pollution.
6. List out the environmental effect of drought.
7. Describe the mitigation strategy for flood disaster.

(5×6 = 30)

PART — C

(Maximum marks : 60)

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

UNIT — I

- III (a) Demonstrate the problem due to deforestation. 8
 (b) Appraise the effect of modern agricultural technology. 7

OR

- IV (a) Analyse the disadvantage of large dams. 8
 (b) Explain the uses of minerals. 7

UNIT — II

- V (a) Discuss the basic concept of food chain. 8
 (b) Write down the characteristics of a forest eco system. 7

OR

- VI (a) Describe ecological succession. 8
 (b) Explain consumers based on their mode of consumption. 7

UNIT — III

- VII (a) What are the sources of water pollution ? 8
 (b) Describe briefly on sewage treatment process. 7

OR

- VIII (a) Discuss various methods of waste management. 8
 (b) What are the sources of pollution ? 7

UNIT — IV

- IX (a) What is a TREM card and explain the emergency procedure in Truck/Tanker accidents. 8
 (b) List out causes and consequences of nuclear explosion. 7

OR

- X (a) Discuss Bhopal tragedy. 8
 (b) Explain land use zoning. 7