

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/  
MANAGEMENT/COMMERCIAL PRACTICE — APRIL, 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. List down the various water resources.
2. Define eco system.
3. What is photochemical smog ?
4. What is an estuary ?
5. List the components of IEC.

(5 × 2 = 10)

PART — B

(Maximum marks : 30)

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

1. Comment why alternate energy resources are required.
2. What do you mean by biome ? Explain.
3. Describe the concept of food web.
4. Describe various waste water treatment methods.
5. List down the control measures of nuclear hazards.
6. Write down the causes of volcanic eruption.
7. Explain the effect of chemical leakage or explosion in industry.

(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) Classify various renewable energy sources. 8  
 (b) Examine the various uses of forest. 7

OR

- IV (a) Assess the problems and effect of mining. 8  
 (b) List down the causes of desertification. 7

## UNIT — II

- V (a) Explain the general features of a desert. 8  
 (b) Name various food chains and its importance. 7

OR

- VI (a) What are the components of an eco system ? 8  
 (b) Enumerate the characteristics of ponds and lakes. 7

## UNIT — III

- VII (a) Which are the sources of land pollution ? 8  
 (b) Describe the noise control techniques. 7

OR

- VIII (a) List down the effect of water pollution. 8  
 (b) Vermi composting is a suitable method for solid waste management. Justify your comments. 7

## UNIT — IV

- IX (a) Explain the effects of cyclone. 8  
 (b) Describe the disaster management cycle. 7

OR

- X Explain the various methods of preparing hazard zonation maps. 15