

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)

[P.T.O.]

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 |