

TED (15) – 3001

Reg. No.

(REVISION – 2015)

Signature

THIRD SEMESTER DIPLOMA EXAMINATION IN ENGINEERING/
TECHNOLOGY — APRIL, 2017

ENVIRONMENTAL SCIENCE AND DISASTER MANAGEMENT

(Common to all branches)

[Time : 3 hours

(Maximum marks : 100)

PART — A

(Maximum marks : 10)

Marks

I Answer the following questions in one or two sentences. Each question carries 2 marks.

1. Define waterlogging.
2. What do you mean by biome ?
3. List any two sources of thermal pollution.
4. Define mitigation.
5. What do you understand by the term 'landslide'.

(5×2 = 10)

PART — B

(Maximum marks : 30)

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

1. Explain why land is considered as a resource.
2. Illustrate the effects of urbanization.
3. Identify sources causing marine pollution.
4. Enumerate control measures for urban and industrial waste.
5. State the reasons for global food crisis.
6. Draw :
 - (i) Simple food chain
 - (ii) Grazing food chain
 - (iii) Detritus food chain
7. Define and distinguish among hazard, vulnerability, 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) Write short notes on :
- | | | |
|---|------------------|---|
| (i) Solar energy | (ii) Wind energy | 8 |
| (b) Genetically modified crops – boon or bane. Discuss. | | 7 |

OR

- IV (a) Explain environmental effects of mining. 8
(b) Establish the importance of energy conservation. 7

UNIT -- II

- V (a) Identify the producers, consumers and decomposers in an eco system. 8
(b) Explain the structure of forest eco system. 7

OR

- VI (a) Describe the significance of biodiversity. 8
(b) Identify the causes of global warming and the effects due to that. 7

UNIT -- III

- VII (a) Identify and explain major nuclear hazard occurred in the world. 8
(b) List the causes of ground water pollution. 7

OR

- VIII (a) State the various methods to control air pollution. 8
(b) Explain the effects of noise pollution. 7

UNIT -- IV

- IX (a) Classify and explain disaster based on the origin. 8
(b) Explain 'assessment of risk'. 7

OR

- X (a) What are the causes of release of toxic chemicals ? 8
(b) Enumerate the adverse effects of drought. 7