

IED (15) -- 3001

Reg. No.

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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