

SIXTH SEMESTER DIPLOMA EXAMINATION IN ENGINEERING/
TECHNOLOGY— MARCH, 2015

ENVIRONMENTAL SCIENCE AND DISASTER MANAGEMENT

(Common for all branches)

[Time : 3 hours

(Maximum marks : 100)

Marks

PART—A

(Maximum Marks : 10)

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

1. Define deforestation.
2. Give your idea on the biotic components of an ecosystem.
3. List some sources of thermal pollution.
4. What is meant by Meteorological drought ?
5. List two non-renewable energy resources.

(5x2=10)

PART—B

(Maximum Marks : 30)

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

1. Give the impact of mining on environment and human beings.
2. List four methods of harvesting solar energy.
3. List the characteristics of a Forest Ecosystem.
4. Elaborate the term 'Ecological Pyramid'. Name the different types of Ecological pyramids.
5. Write short notes on Ozone layer depletion and its harmful effects.
6. Give the use of Hazard zonation maps. Which technology is nowadays used for this purpose.
7. Give the impacts of lightning.

(5x6=30)

PART—C

(Maximum Marks : 60)

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

UNIT – I

- III (a) Elaborate on forests as a resource. 8
- (b) Explain the effects of deforestation on environment. 7

OR

- IV (a) Give the negative impacts of dams on human beings and environment. 8
 (b) Explain the effect of modern agriculture technology on environment. 7

UNIT - II

- V (a) Write short notes on the structure and functions of 'Desert ecosystems'. 8
 (b) Give the characteristics of the Grass land ecosystem. 7

OR

- VI (a) Give the characteristics of fresh water ecosystems. Name the different types of fresh water ecosystems. 8
 (b) What is the function of tropic levels? Name the different tropic levels. 7

UNIT - III

- VII (a) Explain the various control mechanisms for preventing water pollution. 9
 (b) List some of the sources of Nuclear hazards. 6

OR

- VIII (a) Explain the various measures to control the urban and industrial wastes. 9
 (b) Write short notes on the various types of wastes. 6

UNIT - IV

- IX (a) Write short notes on 'Bhopal Gas Tragedy'. 9
 (b) Discuss the causes and impacts of Tsunami. 6

OR

- X (a) Explain the various stages of Disaster Management. 9
 (b) List the main causes of floods. 6