

Roll No. ....

Subject Code—6825

P. G. Diploma EXAMINATION

(Main/Re-appear)

ENVIRONMENTAL MANAGEMENT

PGDEM-05

Energy and Disaster Management

Time : 3 Hours

Maximum Marks : 100

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

### Unit I

1. (a) Explain the following terms : 1×10
- (i) LPG
  - (ii) CNG
  - (iii) LNG
  - (iv) Crude Oil

- (v) Natural gas
- (vi) Ethanol
- (vii) Calorific value
- (viii) Diesel Fuel
- (ix) Fuel rate
- (x) Blended fuel oil.

(b) What is the Indian strategy to meet the future demand of energy ? 10

2. (a) Where are the major fissile fuel research of India located ? 5
- (b) Write down the name of five non-renewable energy resources. 5
- (c) Energy scenario of India. Comments. 10

### Unit II

3. Define the following :  $2\frac{1}{2} \times 8 = 20$
- (a) Biogas
  - (b) Biomass
  - (c) Renewable Energy
  - (d) Tidal Energy

- (e) Geothermal Energy
- (f) Energy Plantation
- (g) Solar Cell
- (h) Anaerobic digestion.

4. Name the various models of biogas plant. Describe any *two* of them. 20

### Unit III

5. (a) What is meant by solar cell ? Enumerate the advantages and disadvantages of the solar cell system. 10
- (b) What are solar collectors ? Enumerate the types of solar collectors. 10
6. Write short notes on any *four* of the following :
- (a) Solar water heater
  - (b) Solar carbon
  - (c) Solar Photovoltaic system
  - (d) Solar pond
  - (e) Solar Desalinization.  $5 \times 4 = 20$

## Unit IV

7. Define the following terms :  $2\frac{1}{2} \times 8 = 20$

- (a) Volcanoes
- (b) Earthquakes
- (c) Hurricanes
- (d) Tornadoes
- (e) Cyclones
- (f) Drought
- (g) Landslides
- (h) Stormes.

8. Write short notes on any *two* of the following :

- (a) Flood Hazard
- (b) Technological Hazard
- (c) Natural Hazard
- (d) Landslide Hazard.

$10 \times 2 = 20$