

**POST GRADUATE DIPLOMA IN
ENVIRONMENT AND SUSTAINABLE
DEVELOPMENT (PGDESD)**

Term-End Examination

December, 2018

00892

MED-003/MED-009 : ENERGY AND ENVIRONMENT

Time : 2 hours

Maximum Marks : 50

Note : *Question no. 1 is compulsory. Attempt any three questions from the remaining questions. Support your answers with suitable examples wherever necessary.*

1. Attempt **all** parts :

- (a) Discuss urban energy planning in context to land use and transportation planning. 5
- (b) Discuss wind energy applications in India. 5
- (c) Describe the role of resources for the sustainable carrying capacity of the Earth. 5
- (d) Discuss the economic approach to the energy problem. 5

2. (a) What are the key challenges in providing energy to the poor ? 5
- (b) Discuss the benefits of energy planning. 5
3. (a) Describe the applications of biomass technologies based on direct combustion. 5
- (b) What is home energy audit ? What are the major problem areas that are responsible for energy losses ? 5
4. "Population growth and industrialisation are the factors which drive the world-wide energy demand." Discuss. 10

OR

Discuss the role of various stakeholders in the energy planning process. 10

5. Write short notes on any *two* of the following : $2 \times 5 = 10$
- (a) Solar Photovoltaic Technology
- (b) Rebound Effect in the Supply of Energy
- (c) Nuclear Hazards
- (d) Fuel Switching
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