

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

Term-End Examination

June, 2021

MED-003/MED-009 : ENERGY AND ENVIRONMENT

Time : 2 hours

Maximum Marks : 50

Note : *Question no. 1 is **compulsory**. Attempt any **three** questions from questions no. 2 to 6. Support your answers with suitable examples, wherever necessary.*

1. Attempt **all** the parts below :

- (a) Describe five sources of energy based on fossil fuels. 5
- (b) Briefly explain any two devices used for energy storage. 5
- (c) List any two ways in which biomass can be used to obtain energy. What are three main categories of raw feed stock materials for biomass technologies ? 5
- (d) List any five measures which can be used to save energy in household appliances. 5

- 2.** (a) List any five ways in which energy efficiency in a building can be improved. 5
- (b) What is Home Energy Audit ? Explain the different aspects of the conservation of energy in homes. 5
- 3.** (a) Describe various activities which require energy usage in the commercial sector in India. Why is the energy usage in developed countries more than in developing countries ? 5
- (b) Explain the benefits of energy planning. 5
- 4.** (a) Describe all the elements of energy strategy, using appropriate examples. 5
- (b) Distinguish between Renewable and Non-renewable resources, giving suitable examples. 5
- 5.** (a) Outline the major concerns for a sustainable energy policy in India. 5
- (b) Describe any two applications of solar photovoltaics. 5

6. Write short notes on any *two* of the following : *2×5=10*

- (a) Hydropower : Clean Energy or Destroyer ?
 - (b) Clean Development Mechanism (CDM)
 - (c) Limitations of Small Hydropower Plant
 - (d) Fuel Switching
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