

No. of Printed Pages : 3 **MED-003/MED-009**

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

**Term-End Examination**

**December, 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 question nos. 2 to 6. Support your answers with suitable examples wherever necessary.*

1. Attempt all the parts :

- (a) Describe factors responsible for increased energy demand. 5
- (b) Explain any *two* key elements of modern energy storage technologies. 5
- (c) Elaborate on biomass potential and its advantages. 5

(d) What are the key economic challenges in providing energy to the poor ? 5

2. (a) Describe the working of a small hydropower plant. 5

(b) Compare the *two* methods of environmental economics used to ensure environmental quality. 5

3. (a) Discuss the carbon dioxide emission from consumption of fossil fuels. 5

(b) Describe the advantages and limitations of Clean Development Mechanism (CDM). 5

4. (a) List any *five* recommendations given by the working group on energy (WORGEN) in SAARC countries. 5

(b) Explain the role of any *two* non-hydro renewable energy resources in meeting the energy needs of India. 5

5. (a) Outline the main features of the 'No-Regrets' Policy. 5

(b) Explain the main features of an energy efficient building. 5

[ 3 ]

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

- (a) Environmental issues of hydropower
- (b) Demand-Side Management (DSM)
- (c) Wind energy and its applications
- (d) Carbon sequestration