

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

**Term-End Examination**

00005

**June, 2018**

**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 5. Support your answers with suitable examples wherever necessary.*

1. Attempt **all** parts :

- (a) Explain the factors that need to be considered in energy economics. 5
- (b) What are the issues and challenges before rural energy planning in India ? 5
- (c) Discuss how energy efficiency can be improved in the transport sector. 5
- (d) Explain the basic principle of electricity generation in a nuclear power plant. 5

2. (a) What is the importance of governance for sustainable energy ? 5
- (b) Discuss the advantages and limitations of a small hydropower plant. 5
3. (a) Discuss briefly the types of solar thermal collectors. 5
- (b) Discuss urban energy planning in context to site planning and building design. 5
4. Discuss the environmental issues in the renewable energy sector. 10

**OR**

Outline the major concerns of a sustainable energy policy in India. 10

5. Write short notes on any *two* of the following : 2×5=10
- (a) Carbon sequestration
- (b) Biomass energy
- (c) Gasification
- (d) Alternative energy supply