

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

Term-End Examination

June, 2016

01746

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 no. 2 to 5. Support your answers with suitable evidence wherever needed.

1. Attempt *all* parts.

- (a) What are the different forms of chemical energy found in fossil deposits ? Discuss any one of them. 2+3
- (b) Describe Alternative Energy Sources. Why are the issues of supply and demand of energy significant for sustainable development ? 1+4
- (c) Define energy economics. Explain the factors and forces that are lead economic agents. 1+4
- (d) Explain the principle underlying solar photovoltaic technologies. 5

2. (a) What are the advantages and limitations of clean energy development mechanisms ? 5
- (b) What are the different production technologies used for non-renewable energy sources ? Discuss any one of them. 2+3
3. (a) Discuss the measures to be taken to improve the energy efficiency of buildings. 5
- (b) Explain economics of Public Demand for renewable energy sources. 5
4. Explain the working of wind turbine and its application in India. 4+6

OR

Discuss the issues and challenges in rural energy planning in India. 10

5. Write short notes on any *two* of the following : 5+5
- (a) Biomass
- (b) Alternative Energy Supply
- (c) Professional Energy Audits
- (d) Fuel Switching
-