

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

**Term-End Examination**

**December, 2014**

01112

**MED-003/MED-009 : ENERGY AND ENVIRONMENT**

*Time : 2 hours*

*Maximum Marks : 50*

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**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.*

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1. Attempt **all** parts :

- (a) What are the different production technologies available for renewable energy resources ? Discuss any one of them. 2+3
- (b) What are other (alternative) energy supply options ? Describe the cogeneration system for production of power. 2+3
- (c) Discuss the broad goals required for energy sustainability. 5
- (d) Describe the various biomass resources and their potential and advantages as energy resources. 2+3

2. (a) What are the non-hydro renewable energy resources available in India ? 5
- (b) Discuss the prospect of biomass energy in India. 5
3. (a) Discuss measures for saving home energy. 5
- (b) Explain professional energy audits. 5
4. What are advantages and limitations of small hydro power plants ? Briefly describe the distribution of small hydro power stations in India. 6+4
5. Write short notes on any *two* of the following : 5+5
- (a) Geothermal energy
- (b) Environmental pollution
- (c) Energy economics
- (d) Waste as an energy resource
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