

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

**Term-End Examination**

00595

**June, 2014**

**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) Explain the concept of energy demand in relation to population growth. 5
- (b) Discuss the process of electricity generation in a thermal plant only with the help of diagram. 5
- (c) What are nuclear hazards ? Describe the problems associated with nuclear waste. 2+3
- (d) List the key objectives of energy policy. 5

2. (a) Discuss the effect of deforestation on carbon and hydrological cycles. 3+3
- (b) Explain the energy saving methods in your home. 4
3. What is energy planning ? Discuss various activities to be undertaken as a part of energy planning process. 4+6
4. Discuss the economics of supply of energy. What is the cost of reducing CO<sub>2</sub> emissions ? 5+5
5. (a) Describe the application of biomass technologies based on direct combustion. 5
- (b) Describe the process of pyrolysis and gasification for energy production. 5
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