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POST GRADUATE DIPLOMA IN
ENVIRONMENT AND SUSTAINABLE
DEVELOPMENT (PGDESD)

Term-End Examination
December, 2011

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. Support your answer with suitable evidence wherever needed.

1. Attempt *any four* from the following :

- (a) What do you understand by Clean Development Mechanism (CDM)? List any three advantages of CDM. 2+3 =5
- (b) Outline the energy needs of urban areas. 5
- (c) List three factors that influence energy demand. Describe any one of them. 3+2=5
- (d) Explain the functioning of a simple Indian Rural Household Biogas Plant. 5
- (e) Explain the principle underlying solar photo voltaic technology. Mention any two of its applications. 3+2=5

2. (a) What do you understand by energy planning? Mention three benefits of energy planning. 2+3=5
- (b) Describe briefly five ways for ensuring energy efficiency in the buildings. 5
3. (a) Mention three key applications of wind energy. State the criteria for selection of sites for installing wind energy systems. 2+3=5
- (b) What are the various strategies for improving infrastructure efficiency? Describe any one of them. 3+2=5
4. (a) List all the major components of a Thermal power plant and mention their key functions. 2+3=5
- (b) List the appliances that you use in your home. Outline the measures that you can take to save energy while using them. 2+3=5
5. (a) Describe the hazards of using nuclear energy. 5
- (b) List four key imperatives of the integrated energy policy for India. Describe briefly any one of them. 2+3=5
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