

No. of Printed Pages : 3 **MED-003/MED-009**

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

Term-End Examination

June, 2020

MED-003/MED-009 : ENERGY AND ENVIRONMENT

Time : 2 Hours

Maximum Marks : 50

*Note : Question No. 1 is compulsory. Attempt any
three questions from Question No. 2 to 5.
Support your answer with suitable examples
wherever necessary.*

1. Attempt *all* parts : 5 each
- (a) Discuss the demand of energy due to industrialisation.
 - (b) Explain the role of chemical energy in fossil fuels.
 - (c) Discuss the role of nuclear power plant in generation of energy in large quantities.

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- (d) Explain the use of energy storage technologies particularly in hydrogen as fuel cells.
2. (a) Discuss the infrastructure efficiency strategies with regard to power and water supply and use of waste water and recycling facilities. 5
- (b) Explain the concept of multi-use building and waste heat utilisation. 5
3. (a) Describe the role of non-hydro renewable energy sources in meeting the energy needs. 5
- (b) What are key concerns for a sustainable energy policy in India ? 5
4. Explain the environmental economics, essentially in the creation of present generation of economists. 10

Or

Discuss the impacts of energy in relation to sustainability in terms of economic growth.

[3]

5. Write short notes on any *two* of the following :

5 each

- (a) Solar thermal power generation
- (b) Biomass technologies
- (c) Advantages and limitations of small hydropower
- (d) Carbon sequestration