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**MED-003**

**POST GRADUATE DIPLOMA IN  
ENVIRONMENT AND SUSTAINABLE  
DEVELOPMENT**

**Term-End Examination**

**June, 2024**

**MED-003 : ENERGY AND ENVIRONMENT**

*Time : 2 Hours*

*Maximum Marks : 50*

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**Note :** Question no. 1 is compulsory. Attempt any **three** question from questions no. 2 to 6. Support your answer with suitable examples, wherever necessary.

Answer all the parts in about **200 words** each.

1. (a) List any **five** good governance actions designed to mobilise financial investment in energy sector. 4 × 5 = 20
- (b) With suitable diagram, explain how electricity is produced in coal-based thermal power plant.

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- (c) What is clean development mechanism ? List the advantages of CDM.
- (d) Discuss the main considerations related to technology transfer.
2. (a) Explain the term biomass and give examples. Discuss the three main categories of raw feedstock materials for biomass technologies. 5
- (b) Discuss the limitations of a small hydropower plant. 5
3. (a) Discuss the key challenges for the policy makers to provide sustainable energy for urban poor. 5
- (b) Analyse the energy demand due to growing industrialisation. 5
4. (a) Analyse the energy related activities and services of commercial sector in India with the increasing energy demand. 5
- (b) Briefly discuss the demand-side and supply-side approaches to the energy related issues. 5

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5. (a) Explain how fuel switching helps in cleaning up the environment. 5
- (b) Discuss the major environmental issues associated with the development of hydropower projects. 5
6. Write short notes on any **two** of the following.

$2 \times 5 = 10$

- (a) Applications of solar photovoltaic technology.
- (b) Key concerns for a sustainable energy policy in India.
- (c) Role of state government in energy planning process.
- (d) Energy efficiency in buildings.

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