

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

**POST GRADUATE DIPLOMA IN
ENVIRONMENT AND SUSTAINABLE
DEVELOPMENT (PGDESD) / MASTER
OF SCIENCE (RENEWABLE ENERGY
AND ENVIRONMENT) (MSCRWEE)**

Term-End Examination

December, 2023

MED-003/MED-009 : ENERGY AND ENVIRONMENT

Time : 2 Hours

Maximum Marks : 50

Note : Attempt any *five* questions.

1. (a) Briefly explain various sources of mechanical energy. 5
- (b) What is environmental economics ? Briefly explain its scope. 5
2. (a) Discuss the role of national government in the energy planning process. 5
- (b) What are the key concerns for a sustainable energy policy in India ? 5

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3. (a) Discuss the reasons for rising carbon emissions in India. Answer in about **250** words. 5
- (b) Analyse the impact of liberalisation and privatisation of the energy sector on the people of developing countries. 5
4. (a) Discuss nuclear hazards in about **250** words. 5
- (b) Explain the process of generation of electricity in a coal-based thermal power plant with a suitable diagram. 5
5. (a) “Sequestration of carbon is one way of cleaning up fossil technologies.” Justify the statement. 5
- (b) What are the limitations of small hydropower technology? 5
6. (a) Explain the major stages in the production of charcoal in about **250** words. 5
- (b) Discuss the technological measures that can be taken to improve the energy efficiency of buildings. 5

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7. (a) Discuss the key challenges for energy economist planners and policy makers to provide sustainable energy for urban poor. Answer in about **250** words. 5
- (b) What are the factors that should be considered while formulating energy policy ? Answer in about **300** words. 5
8. Write short notes on the following : 2×5=10
- (a) Solar desalination
- (b) No-regrets policy