

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

Term-End Examination

June, 2019

02471

MED-003/MED-009 : ENERGY AND ENVIRONMENT

Time : 2 hours

Maximum Marks : 50

Note : Attempt any five questions.

-
1. (a) Briefly explain how electricity is produced in coal based thermal plant. 5
 - (b) Discuss the broad aims of energy planning. 5
 2. (a) What do you mean by professional energy audits ? 5
 - (b) Citing an example from India, highlight the applications of wind energy. 5
 3. (a) Throw light on demand substitution among energy commodities. 5
 - (b) List the measures which need to be taken to meet the goals of Indian Energy Policy. 5

4. (a) What are the key initiatives of Indian Biomass Production Programme ? 5
- (b) Define carrying capacity. Differentiate between biophysical and social carrying capacity of Earth's energy base with suitable example. 5
5. (a) Analyse the energy use in agricultural and industrial sectors of any country. 5
- (b) Elaborate the key objectives of Energy Policy of developing countries. 5
6. (a) What is Clean Development Mechanism (CDM) ? Describe its any two advantages and limitations each. 1+4
- (b) "Environmental economics undertakes theoretical or empirical studies of the economic efforts of national or local environmental policies around the world." Justify the statement. 5
7. (a) What are the key components of solar photovoltaic technology ? 5
- (b) List any three factors causing deforestation in developing countries. Explain any two consequences of deforestation. 5
8. (a) Describe any one method for mitigating carbon emission from the atmosphere. 5
- (b) What are the impediments to technology transfer ? Give any three points. 5