

Roll No.

Total Pages : 02

BT-7/M-20

37238

**ENERGY RESOURCES AND TECHNOLOGY
CE-437N**

Time : Three Hours]

[Maximum Marks : 75

Note Attempt Five questions in all, selecting at least one question from each Unit.

Unit I

1. Explain impact of thermal and nuclear power stations on environment in detail.
2. Explain the Fuel cells and Hydrogen energy.

Unit II

3. What is the Solar Radiation ? Explain active and passive heating of building.
4. Explain in detail the specification for Solar cells and Solar charts.

Unit III

5. What do you understand by utilization of Biogas ? Write down the purpose, importance and requirement of Biogas.

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6. Explain the terms : ethanol, methanol, biogas plants and digesters.

Unit IV

7. Explain all the following :
- (a) Run off river plants
 - (b) Load curve and load factors
 - (c) Estimation of water power.
8. What do you understand by pumped storage plants? Explain elements of Hydro power and their advantages and disadvantages.