

CT Inst. of Engg., M

## SECTION - B

2. State four types of classification of energy source each.
3. State the need and importance of energy conservation.
4. Discuss the sources of waste heat and its potential.
5. What measures should be taken for good house keeping in boilers?
6. Explain in detail recuperative waste heat boilers.

## SECTION - C

7. State the difference between 'Energy conservation' and 'Energy audit' with an example.
8. List out the instruments required to carry out energy audit in detail, energy audit procedure in pulp and paper industry.
9. Describe in detail the energy usage pattern in textile industry.



Roll No. ....

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (ME) (Sem.-7<sup>th</sup> & 8<sup>th</sup>)**ENERGY CONSERVATION AND MANAGEMENT**

Subject Code : DE/ME-1.4

Paper ID : [A0852]

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTION TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

**SECTION-A****1. Write short notes on :**

- (a) What is the need for energy conservation?
- (b) Write advantages of coal as primary energy source.
- (c) What is the use of prime movers for power generation?
- (d) Describe gas turbine used as a prime mover for power generation.
- (e) What do you mean by energy audit?
- (f) Write various alternative sources of energy.
- (g) What is electronic beam welding?
- (h) What is Fluidized bed technology?
- (i) Write the names of energy intensive industries.
- (j) What do you mean by good house keeping?