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# B.Tech.(ME) (2012 Onwards E-II) (Sem.-7,8) ENERGY CONSERVATION AND MANAGEMENT

Subject Code: DE/ME-1.4 M.Code: 72000

Time: 3 Hrs. Max. Marks: 60

#### **INSTRUCTION TO CANDIDATES:**

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

### **SECTION-A**

### 1. Write briefly:

- a) What is secondary energy source?
- b) Draw the layout of a steam power plant.
- c) Define "Equivalent Evaporation" in a boiler.
- d) What is micro wave heating?
- e) What is recuperates economizer?
- f) Explain the energy conservation principle.
- g) What is Green house effect?
- h) Explain the principle of electronic beam welding.
- i) What is the importance of Energy Audit?
- j) Explain the second law of thermodynamics.



## **SECTION-B**

- 2. List the various alternate energy sources.
- 3. Write short notes on the energy management.
- 4. State in brief advantages and disadvantages of dielectric & micro wave heating.
- Layout general procedure in Energy Audit. 5.
- 6. Discuss different methods used to improve the performance of Thermal Power Plants.

### **SECTION-C**

- 7. Name and explain the various sources of energy. Compare the various sources of energy.
- 8. Why energy storage is required? State the types of energy storage and explain any one.
- 9. Write short notes on the following:
- a) Energy Management Information System
  b) Economizer

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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