www.FirstRanker.com

www.FirstRanker.com

Roll No. Total No. of Pages: 02

Total No. of Questions: 09

B.Tech. (ME) (E-I 2011 Onwards) (Sem.-6) ENERGY CONSERVATION AND MANAGEMENT

Subject Code: DE/ME-1.4 M.Code: 71246

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS 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 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. How can we save energy?
- b. What do you understand by the term waste heat?
- c. Explain the operating principle of a regenerator.
- d. What are the waste heat recovery areas?
- e. Why we need to implement 'Good Housekeeping'?
- f. Why is Energy Conservation so important?
- g. What is thermal storage?
- h. What is energy resource management?
- Define economizer.
- j. What is electron beam welding?



SECTION-B

- 2. What steps should be taken for good housekeeping?
- 3. Explain the energy conservation case study in air conditioning.
- 4. Explain energy usage patterns in textile and oil refineries.
- 5. Write a note on optimum use of primary movers for power generation in diesel and gas engines.
- 6. Write a note on fluidized bed technology.

SECTION-C

- 7. Explain the dielectric and micro wave heating. Give advantages, disadvantages and applications.
- 8. Explain the regenerators and heat boiler waste heat recovery options and technologies. Give their advantages and applications.
- 9. What is the need for energy conservation? Also give its potentials and fiscal incentives.

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.

2 M-71246 (S2)-2742