

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(ME) (2011 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 :

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) What is meaning of Energy Conservation?
- (b) What is meaning of energy intensive industries?
- (c) What are prime movers?
- (d) What is energy audit?
- (e) What is meaning of waste heat recovery system?
- (f) What are regenerators?
- (g) What is nuclear fuel?
- (h) Name some primary sources of energy.
- (i) What is fluidized bed?
- (j) What are heat exchangers?

SECTION-B

2. How can laser be used as a welding tool? Explain.
3. Explain some alternative sources of energy.
4. What type of housekeeping measures would you recommend for energy saving in boilers?
5. Explain the methodology of energy audit.
6. Explain different energy storage methods.

SECTION-C

7. Explain different waste heat recovery systems.
8. How can the energy be saved in air conditioners, boilers and burners?
9. Explain the process of dielectric heating and microwave heating.

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.