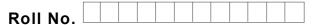
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Total No. of Pages : 02

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B.Tech.(ME) (2011 Onwards E-II) (Sem.–7,8) ENERGY CONSERVATION AND MANAGEMENT Subject Code : DE/ME-1.4 Paper ID : [A3068]

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 briefly :

- a) What is insulation?
- b) Explain the operating principle of a regenerator.
- c) Why we need to implement 'Good Housekeeping'?
- d) What is thermal storage?
- e) Define economizer.
- f) What are the applications of a heat pipe in heat exchanger?
- g) Define fluidized bed technology.
- h) Explain the difference between energy conservation and management.
- i) Why is Energy Conservation so Important?
- j) How can we save energy?

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SECTION-B

- 2. What are alternative sources of energy? Explain them.
- 3. Write a note on fluidized bed technology.
- 4. Explain energy usage patterns in iron- steel and aluminum industries.
- 5. Explain the energy conservation case study in air conditioning.
- 6. Write a note on optimum use of primary movers for power generation in diesel and gas engines.

SECTION-C

- 7. Explain the regenerators and heat boiler waste heat recovery options and technologies. Give their advantages and applications.
- 8. Explain the principle and working of electron beam welding with neat and clean diagram. Give advantages, disadvantages and applications.
- 9. Write a note on optimum use of primary movers for power generation in steam turbines and gas turbines.

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