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Total No. of Pages : 02

Total No. of Questions : 18

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

Subject Code : DE/ME-1.4

M.Code : 72000

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**Write briefly :**

1. What is meaning of energy conservation?
2. What is meaning of energy intensive industries?
3. What is fluidized bed?
4. What is thermal storage?
5. What is requirement of energy storage system?
6. What are the benefits of regenerators?
7. What is nuclear fuel?
8. What are recuperators?
9. What is microwave heating?
10. What are alternative sources of energy?

SECTION-B

11. How can you save energy in steam turbines and gas turbines?
12. Explain construction and working of economizers.
13. Explain the methodology of energy audit.
14. Explain the process of dielectric heating.
15. Explain different primary sources of energy along with their advantages and disadvantages.

SECTION-C

16. Explain different waste heat recovery systems used in thermal power plants.
17. Explain different energy storage methods.
18. How can the energy be saved by proper maintenance and housekeeping? Explain with industrial examples.

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.