

Roll No.....

Total No. of Printed Pages: 1

Total No. of Questions: [09]

B. Tech CSE (Semester – 8th)
ENERGY MANAGEMENT
Subject Code: BELE0-F97
Paper ID: [OE3111104]

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A

(2 marks each)

Q1. Attempt the following:

- a) What do you understand by energy pricing?
- b) Name the various losses occurring in induction motors.
- c) What are the types of energy audit?
- d) Define simple pay- back period.
- e) What is the importance of energy conservation?
- f) Why the motor replacement issues are common in industries?
- g) Why bench marking is significant in auditing?
- h) What do you understand by cash flows in financial management?
- i) Name various light sources used for monuments.
- j) Why energy is significant for growing economy of country?

Section – B

(5 marks each)

- Q2. Explain which energy sector reforms have been initiated in last decade.
- Q3. What is the various type of tariffs imposed on consumers?
- Q4. Explain how the plant energy performance is measured.
- Q5. Discuss the various factors affecting the financial analysis.
- Q6. Discuss the factors affecting the motor performance.

Section – C

(10 marks each)

- Q7. Discuss in detail the Energy Conservation Act 2001 and its prominent features.
- Q8. Explain thoroughly the need of power factor improvement and methods to improve the power factor.
- Q9. Write generalized step by step procedure to perform energy audit in large scale industry.