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.