

# Code No: Z – 8133 – 2015

FACULTY OF ENGINEERING & TECHNOLOGY  
M.E. (EPS) (Revised) Examination  
MAY/JUNE, 2015  
(Elective-I)

## Energy Audit & Conservation

Time: Three Hours

Max. Marks: 80

**“Please check whether you have got the right the question paper”**

Note: i) *Solve any TWO questions from each section.*

### SECTION-A

- Q.1 (a) Explain in details the concept of “Energy Recycling” with example. 10  
(b) Explain the significance of “Grid Status” in view of power generation. 10
- Q.2 (a) Explain “Time Value of money” in pay back period. 10  
(b) Explain in details “Benefit Cost Ratio” with example. 10
- Q.3 (a) What are the considerations for implementation of motor management program and economic, evaluation methods. 10  
(b) State and explain the consideration of IEEMA standard 19-200, and IS12615. 10
- Q.4 Explain in detail with statement of Energy Conservation Bill of Government of India. 20

### SECTION-B

- Q.5 (a) Describe the methods and types of illumination controllers. 10  
(b) Explain different methods used in industrial energy conservation systems in welding processes. 10
- Q.6 Explain with neat electrical diagrams, the effective measures to reduce T & D losses required to take place. 20
- Q.7 (a) Compare different energy inputs on the basis of availability and storage feasibility. 10  
(b) What is meant by “Target Setting”? Explain in view of energy management. 10
- Q.8 (a) Explain (i) Least square method & (ii) Cusum technique. 10  
(b) Describe with each block significance the (i) data energy flow diagram & (ii) Sankey diagram. 10

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