

Roll No. ....

**23455**

**M. Tech. 3rd Semester (Electrical  
Engg.) Spec.(Electrical Power System)  
Examination – December, 2014**

**DEMAND-SIDE ENERGY MANAGEMENT**

Paper : MTEPS-302(iii)

*Time : Three hours ]*

*[ Maximum Marks : 100*

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*Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.*

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**Note :** Attempt any *five* questions.

1. What do you mean by Energy Audit ? Explain the types of energy audit. 20
2. Discuss the term energy economics. Explain straight line depreciation. 20
3. What do you mean by utility voltage regulation. Explain the factors which affects the utility voltage regulation. 20

4. What do you mean by Energy Efficient motors ? Draw and explain the performance characteristics of EEM w. r. t. cost effectiveness. 20
  5. Discuss Electric lighting. Explain the need for an energy management program. 20
  6. How the use of white light LED and conducting polymers helps in energy conservation in lighting ? 20
  7. Explain the principle of space heating. Also explain the space heating methods. 20
  8. Differentiate between co-generation and storage. Explain compressed air energy storage. 20
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