

Roll No.			Total No. of Pages : 01

Total No. of Questions: 08

M.Tech. (Electrical Engineering) (2013 Batch E-IV) (Sem.-3)

LOAD AND ENERGY MANAGEMENT

Subject Code: MTEE-302C Paper ID: [74861]

Time: 3 Hrs. Max. Marks: 100

INSTRUCTION TO CANDIDATES:

- 1. Attempt any FIVE questions out of EIGHT questions.
- 2. Each question carries TWENTY marks.
- Q1. What are issues related to energy management? What are main Stakeholder involved? Explain their roles.
- Q2. What are the criteria for energy forecast? Explain their importance with applications.
- Q3. What are the requirements for EEPDS system? How is it implemented?
- Q4. What are role of tariff in load management? What are methods used for ensuring a better satisfaction?
- Q5. Why Communication control technique is used for load managements in power system? Justify your answer.
- Q6. Explain importance of energy model and decision making process. How is it achieved to improve the reliability of power system?
- Q7. A city 132 KV substation has 2 transformers each of 10MVA, 132/11KV are run in parallel. Each is having no load = 18KW and load losses 60KW percent impedance= 10.5% no load current is 0.9%. Calculate the losses, power factor at HV bus If load is 12+j7.2 MVA.

Q8. Write short notes on:

- a) Peak demand forecasting
- b) Communication and coordination in load management
- c) Annual energy forecast
- d) Load demand Characteristics