

MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

(Affiliated to JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD)

Gundlapochampally (H), Maisammaguda (V), Medchal (M), Medchal-Malkajgiri (Dist), Hyderabad.

M.Tech II Semester Supplementary Examinations, DECEMBER-2017

SUBJECT: Electrical Smart Grid

Branch/Specialization: EEE/Electrical Power Systems.

Time: 3 hours

Max. Marks: 60

Answer any five of the following questions

5 x 12 Marks= 60 Marks

1. a) High light on evolution of electric Grid and the Concept of Smart Grid.
b) What are the initiatives taken by Indian economy for smart grid?
- 2) Explain about fully integrated power system and nodes of innovation.
- 3) Explain about Intelligrid architecture for the smart grid.
- 4) Explain about dynamic energy management system operation from an integrated perspective.
- 5) Write Short notes on
 - i) Smart Home Management System
 - ii) Energy Efficiency in Smart Grid
- 6) Explain about present policies and programs in smart grid.
- 7) Explain in detail about efficient electric end use technologies.
- 8) Discuss about industrial energy management system.