

Total No. of Questions : 6]

SEAT No. :

P335

[Total No. of Pages : 1

APR. - 16/BE/Insem.-40
B.E. (Electrical Engineering) (Elective - IV(a))
SMART GRID
(2012 Pattern) (Semester - II)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates :

- 1) *Solve Q1 or Q2, Q3 or Q4, Q5 or Q6.*
- 2) *Figures to the right side indicate full marks.*
- 3) *Neat diagrams must be drawn wherever necessary.*
- 4) *Assume Suitable additional data, if necessary.*

Q1) a) Difference between conventional grid and smart grid. [5]

b) Explain the Resilient and self healing grid. [5]

OR

Q2) a) Give present development and international policies in smart grid. [5]

b) Give and explain the opportunities and barriers of smart grids. [5]

Q3) a) Explain in detail Plug in Hybrid Electric Vehicles (PHEV). [5]

b) Explain, the “Feeder Automation”. [5]

OR

Q4) a) Explain phase measurement unit and its importance in smart grid. [5]

b) What are Smart storage technologies and explain any two. [5]

Q5) a) What do you mean outage management system (OMS)? Explain how smart grid technologies can improve outage management processes. [5]

b) How Automated Meter Reading system Works? Draw block diagram and give the advantages. [5]

OR

Q6) a) Write a note on, Real time pricing”. [5]

b) Highlight on role of geographic information system in smart grid, and also give its function. [5]

