| Total No. of | Questions | : | 6] | |
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| SEAT No.: | |
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P219

[Total No. of Pages: 1

BE/INSEM/APR-549

B.E. (Electrical)
403150A: SMART GRID

(2015 Pattern) (Semester - II) (Elective - IV)

| Time | e:1 | [Max. Marks | : 30 |
|-------------|-----|--|------------|
| Instr | uct | tions to the candidates: | |
| | 1) | Attempt Q.No 2 or Q.No2, Q.No.3 or Q.No.4, Q.No.5 or Q.No.6. | |
| | 2) | Neat diagram must be drawn wherever necessary. | |
| | 3) | | |
| | 4) | Assume suitable data, if necessary. | |
| Q 1) | a) | What is the need of Smart Grid? What will be the components of Smart Grid? | mart |
| | | Grid? | [5] |
| | b) | State and Explain the challenges for Smart Grid. | [5] |
| | | OR | |
| Q2) | a) | Define Smart Grid and give its functions. | [5] |
| ~ / | b) | Give present development and international policies in smart grid. | [5] |
| | - / | | |
| Q3) | a) | Explain the concept Progin Hybrid Electric Vehicles. | [5] |
| Q 3) | b) | Explain phase measurement unit and its importance in smart grid. | [5] |
| | U) | OR | [2]/ |
| 04) | ٥) | | |
| Q4) | a) | Write a note on Remote Terminal Unit with block diagram and wr function of each block. | , |
| | 1 \ | | [5] |
| | b) | Explain, the "Feeder Automation". | [5] |
| | | | |
| Q5) | a) | What is meant by Smart Sensors? Give and explain some smart sens | |
| | | | [6] |
| | b) | Write a note on, "Real Time Prizing". | [4] |
| | | OR O | |
| Q6) | a) | What is Geographic Information System (GIS)? Explain the component | ents |
| • | | of GIS. | [6] |
| | b) | Explain how automatic meter reading can make the system Smarter | . [4] |
| | • | | _ |