

B. Tech. Sem –VIII (Electrical Engg.) (2014 COURSE) (CBCS) :
SUMMER - 2019

SUBJECT: 2) ELECTIVE-IV SMART GRID

Day: Thursday
Date: 30/05/2019

Time: 02.30 PM TO 05.30 PM
Max. Marks: 60

S-2019-2896

N.B.

- 1) All questions are **COMPULSAORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Assume suitable data with necessary.

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- Q.1** a) What is self healing grid (05)
b) State present development and international policies in smart grid (05)

OR

- Q.1** a) Name and explain few pilot projects of smart grid in India (05)
b) Differentiate between conventional and smart grid (05)

- Q.2** a) Explain SMES (05)
b) Comment on optimal location of PMUs (05)

OR

- Q.2** a) Draw and explain working of V2G (05)
b) Compare super capacitors and SMES (05)

- Q.3** a) Enlist smart appliances available in market (05)
b) What is AMR (05)

OR

- Q.3** a) Compare conventional and smart meters (05)
b) Give example of building automation (05)

- Q.4** a) Compare smart and micro-grid (05)
b) State the necessity of cyber controlled smart grid (05)

OR

- Q.4** a) Explain green micro-grid with examples (05)
b) What is grid islanding (05)

- Q.5** a) Define power quality and its parameters (05)
b) Explain EMC in smart grid (05)

OR

- Q.5** a) What are PQ issues in smart grid (05)
b) Explain with sample report – power quality audit (05)

- Q.6** a) Compare Bluetooth, WiFi and WiMax (05)
b) Explain wireless mesh network (05)

OR

- Q.6** a) Explain communication architecture of smart grid (05)
b) State the role of cloud computing in smart grid (05)

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