

M. Tech. Electrical 2011 Sem-IV
Self Study P-II

UFRETIS - IV (CBCS - 2011 COURSE): WINTER - 2016
SUBJECT: SELF - STUDY- PAPER - II: e) DISTRIBUTED GENERATION

Day: Thursday
Date: 01-12-2016

Time: 11:00 A.M. To 2:00 P.M.
Max. Marks: 60

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SEPARATE** answer book.
- 4) Draw neat diagrams **WHEREVER** necessary.

SECTION-I

Q.1 How is distributed generation being integrated into National power sector planning? (10)

OR

What kind of ownership models of distributed generations being used in India? (10)

Q.2 Explain in detail vehicle to grid operation. (10)

OR

Explain with neat sketch fuel cells in distributed generation. (10)

Q.3 Explain with one line diagram multifunctional digital interconnected relay for distributed generation system. (10)

OR

Explain impact of distributed generation on short circuit levels of network. (10)

SECTION-II

Q.4 Explain in brief rapid voltage changes, High Distortions and Voltage Dips. (10)

OR

Why it is important to assess power quality of Distributed Generation Systems? (10)
What may be significant effect of low frequency Harmonics on distribution network?

Q.5 Broadly explain role of Distributed Generation in smart Grid. (10)

OR

Discuss the general features of smart grid. (10)

Q.6 Explain techno- economical issues with hybrid Distributed Generation Systems. (10)

OR

What are the future modifications of Distributed Generation? (10)

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