

M. Tech.-IV (Electrical -Power System) (CBCS – 2015 Course) :
SUMMER - 2019
SUBJECT: SELF-STUDY PAPER – II : DISTRIBUTED GENERATION

Day: Thursday
Date: 13/06/2019

Time: 11.00 AM TO 02.00 PM
Max Marks. 60

S-2019-3559

N.B. :

- 1) All questions are **COMPULSORY**.
- 2) Neat diagrams must be drawn **WHEREVER** necessary.
- 3) Answer to both the sections should be written in **SAME** Answer book.
- 4) Figures to the right indicate **FULL** marks.
- 5) Assume suitable data, if necessary.

SECTION - I

Q.1 Describe the current technological trends in grid connected solar distributed generation. **(10)**

OR

Q.1 What are various distributed energy resources and also explain energy efficiency of distributed wind generation? **(10)**

Q.2 Elaborate how the integration of mini and micro generation is carried out in distributed generation. **(10)**

OR

Q.2 What is the significance of vehicle to grid (V2G), elaborate in detail? **(10)**

Q.3 What is unintentional islanding? Explain in detail. **(10)**

OR

Q.3 Compare passive and active detection of unintentional islands in distributed generation. **(10)**

SECTION – II

Q.4 Discuss the impacts of distributed generation on power system. **(10)**

OR

Q.4 Discuss in detail major power quality problems. **(10)**

Q.5 State and explain features of smart grid. **(10)**

OR

Q.5 Describe the role of distributed generation in smart grid. **(10)**

Q.6 Describe in detail future development in D.G. **(10)**

OR

Q.6 Discuss in detail financial aspects of D.G. **(10)**

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