

**M. TECH.-IV (ELECTRICAL -POWER SYSTEM) (CBCS – 2015
COURSE) : SUMMER - 2018**

SUBJECT: SELF – STUDY- PAPER – II: e) DISTRIBUTED GENERATION

Day: **Tuesday**
Date: **19/06/2018**

S-2018-3156

Time: **11.00 AM TO 02.00 PM**
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 Explain how flexible and responsive is distributed generation planning to (10)
changing conditions in India.

OR

What ownership approaches can be used successfully for distributed generation (10)
implementation in India.

Q.2 What are the causes of islanding in distributed generation system and why it is (10)
required to connect anti islanding inverter in distributed generation?

OR

Explain in detail grid interconnection issues, planning and advantages of (10)
distributed generation system for grid.

Q.3 What are various protection issues with distributed generation? (10)

OR

Explain over current scheme for protection in distributed generation system. (10)

SECTION-II

Q.4 Discuss in brief Fast voltage functions in solar power. (10)

OR

Describe the Impact of distributed generation on power system. (10)

Q.5 Explain interconnections of smart grid in Distributed Generation with new (10)
technology.

OR

Describe the power control strategy of smart grid in distributed generation (10)
environment.

Q.6 Explain financial aspects of Distributed Generation in power system. (10)

OR

What is the future of Distributed Generation System? (10)

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