

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

SUBJECT : SELF STUDY PAPER – II: ELECTRICAL POWER CAPACITORS

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

S-2018-3152

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 books.
- 4) Assume suitable data, if necessary.

SECTION – I

Q.1 Write a note on housing of capacitors. [10]

OR

Write importance of aluminium and oil as a constructional material in electrical power capacitors. [10]

Q.2 Give fabrication of Aluminum and oil type capacitors. [10]

OR

Write a note on ageing and dielectric breakdown of capacitors. [10]

Q.3 Give testing of capacitors with reference to IS 13340 – 1993. [10]

OR

Write a note on routing and type test. [10]

SECTION – II

Q.4 Write about d.c. and energy storage capacitor. [10]

OR

Write a note on medium frequency capacitors. [10]

Q.5 Write fundamental effect of shunt capacitors on power circuits. [10]

OR

Explain automatic control for capacitor bank. [10]

Q.6 Write a note on development of supercapacitors for renewable energy source using smart materials. [10]

OR

Write a note on electric vehicle. [10]

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