SECTION - A

O Fundain & discuss the growth of name
2. Explain & discuss the growth of power systems. 20
3. Write a technical note on security analysis. 20
SECTION - B
4. Explain the Newton- Raphson method for load flow
study and write its algorithm. 20
5. Write notes on :
(i) Decoupled Load flow studies.
(ii) Load flow study of distribution system.
SECTION C
6. What is symmetrical and unsymmetrical fault in
power system ? Explain double line to ground fault in
detail. 20
7. Explain various digital types of faults in power
Systems. 20

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B. Tech. 7th Semester (EE) Examination – December, 2019

COMPUTER APPLICATIONS TO POWER SYSTEM ANALYSIS

Paper: EE-409-F

Time: Three Hours]

[Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note: Attempt five questions in all, selecting one question from each Section. Question No. 1 is compulsory.

All questions carry equal marks.

(a) Explain per fault current condition.

(b) What is Tree graph in load flow studies. 5

(c) What is the importance of power flow studies. 5

(d) What is EMTP ? State its features.

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SECTION - D

8. Explain the role and importance of SCADA System in a power system unit. Draw required diagram. 20

9. Explain the application of MATLAB power system block set.

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