

Roll No. ....

**24424**

**B. Tech. 7th Semester (Electrical Engg.)**

**Examination – December, 2016**

**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 out of nine questions. Question No. 1 is *compulsory*. Students have to attempt *one* question from each of four Sections.

1. (a) What is the importance of power flow studies ?
- (b) What are the conditions for choosing slack bus ?
- (c) Explain sparsity.
- (d) Explain per fault current condition.
- (e) Compare GS & NR method.

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**SECTION – A**

2. Explain growth of power system.
3. Explain Ferranti effect in transmission line & calculate the performance of short transmission line.

**SECTION – B**

4. Explain formation of Y bus using singular transformation.
5. Explain NR method for load flow study & write its algorithm.

**SECTION – C**

6. Explain symmetrical components in power system.  
What is approximate load flow studies ?
7. Explain various digital types of faults in power system.

**SECTION – D**

8. Explain various states in SCADA system.

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9. Describe various MATLAB block set in power system.

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