

Roll No. ....

**24361**

**B. Tech. 6th Semester (CS & IT)**

**Examination – May, 2019**

**SYSTEM PROGRAMMING AND SYSTEM  
ADMINISTRATION**

Paper : IT-303 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 any five questions in all, selecting one question from each Section. Question Number 1 is compulsory. All questions carry equal marks.

1. Write the short note on the following :

- (a) Differentiate between assembler and Loader
- (b) Subroutine linkage
- (c) Macro calls
- (d) Role and function of system manager
- (e) Filters and pipelines
- (f) Software tools
- (g) Debug monitors

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- (h) Macro processor
- (i) Shell scripts
- (j) UNIX editor vi

**SECTION – A**

- 2. Explain Single and Two Phase Assembler.
- 3. Write down Full Compilation Process in detail.

**SECTION – B**

- 4. What is Macro Calls ? Explain conditional macro expansion.
- 5. What is Operating System ? Explain Demand Paging and Directory Structure.

**SECTION – C**

- 6. Write down the file permission in UNIX. How would you change the permission of a file ? Explain in detail.
- 7. Explain File and Directory related command of UNIX in detail. Also give a brief on VI editor.

**SECTION – D**

- 8. Explain Shell Scripting. Give different types of Shell in UNIX. What are Wild Cards ? Also focus on file systems and special files.

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9. Write the short notes on the following :

- (a) Definition of system administration
  - (b) Backups and restoration
  - (c) Shell Variables
  - (d) Sorting and splitting files
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