

Roll No.

24361

**B. Tech. 6th Semester (CS & IT)
Examination – May, 2018**

**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 : Question No. 1 is *compulsory* and attempts *four* more questions selecting *one* question from each Unit. All questions carry equal marks.

1. Write the short note on the followings :

- (i) System Programs
- (ii) Macro
- (iii) Macro Instructions
- (iv) Inodes
- (v) Demand Paging

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(vi) Pipe

(vii) Vi Editor

(viii) Scripts

SECTION - D

8. Explain shell programming. Give different types of Shells. Also focus interactive shell scripts.
9. Write the short notes on the followings :
 - (a) Maintaining user accounts
 - (b) Backups and restoration
 - (c) Role and functions of a system manager
 - (d) AWK utility

SECTION - A

2. What is system programming explain its evolution history in detail.
3. Focus on incremental compiler. Also explain general loader and absolute loader with examples.

SECTION - B

4. What is Macro ? Explain features of Macro facility and Macro Instruction Arguments.
5. What is UNIX operating system? Explain different CPU scheduling.

SECTION - C

6. Write down any ten commands of UNIX with their briefing. Also explain UNIX directories and files in UNIX environment.
7. Write down the basic operations on files using UNIX. Also focus on changing permission in detail.