

B.Tech 6th Semester (CSE/IT) F-Scheme

Examination, May-2017

**SYSTEM PROGRAMMING & SYSTEM
ADMINISTRATION**

Paper-IT-303-F

Time allowed : 3 hours]

[Maximum marks : 100

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

1. (a) Differentiate between UNIX and LINUX.
- (b) Write various loading schemes.
- (c) Briefly discuss directory structure of UNIX.
- (d) Explain AWK utility.
- (e) What are wild cards ? What is their use.
- (f) Define Macro.
- (g) Define terms page, block, fragments.
- (h) Write short note on filters and pipelines.
- (i) Define shell variables.
- (j) Explain any four UNIX command.

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Section-A

2. What do you mean by system programming ?
Discuss the major components of a programming system. 20
3. Discuss the designing of two phase assembler.
How its functioning is better than single phase assembler ? 20

Section-B

4. Define Macro and Macro processor. Explain various macro facilities with example. 20
5. How the memory is managed in Unix ? Explain with the help of examples. 20

Section-C

6. (a) What is file permission ? How many types of permission used in Unix explain in detail ? 10
(b) Explain how a user change the permission of any file. 10
7. Write short note on :
 - (a) Filters and Pipelines
 - (b) Vi editors and its mode of operations

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Section-D

8. (a) Write a program in C-shell to find whether a string is palindrome or not. 10
(b) How the backup and restoration is performed in Unix environment ? Explain in detail. 10
9. (a) Explain role and function of system manager in detail. 10
(b) Discuss basic features of Linux Operating System. 10