

Roll No.

2324

B. E. 6th Semester (C.S.E.)

Examination – May, 2011

**SYSTEM PROGRAMMING AND SYSTEM
ADMINISTRATION**

Paper : IT-303-E

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. All questions carry equal marks.

1. (a) What do you mean by cross compiler ?
Differentiate between compiler, interpreter and assembler.
(b) Explain the use of text editor and debug monitors.
2. (a) Discuss the various loaders scheme in details.
(b) What are the various data structures that are maintained during the working of assemblers ?

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3. (a) What do you mean by virtual memory ? How we can implement it ?
- (b) What do you mean by logical structure of directory ? Discuss its various structures.
4. (a) Discuss the features of macro facility.
- (b) Explain the various file allocation methods.
5. (a) What are the various ways to provide the security in UNIX ? Explain in detail with its commands.
- (b) What is the use of VI-editor in UNIX ? Explain its three modes of operations.
6. (a) Explain any *five* commands of text manipulation.
- (b) Explain the use of AWK utility with its various parameters.
7. (a) Write a shell program in UNIX to find out a particular day on a given date.
- (b) Write a shell program in UNIX to find the LCM of three numbers.

8. Write the short notes on the following :

- (a) Booting
 - (b) I-Node
 - (c) Swapping
 - (d) CPU scheduling
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