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B. Tech 6th Semester (Computer Science & Engineering)
Examination, May-2013

SYSTEM PROGRAMMING AND SYSTEM

ADMINISTRATION

Paper-IT-303-F

Time allowed : 3 hours]

[Maximum marks : 100

Note : Question No. 1 is compulsory and attempt four more questions selecting one question from each section. All questions carry equal marks.

1. Write the short notes 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.

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.

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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 the ten commands of UNIX. Also explain UNIX directories and files in UNIX environment.
7. Write down the basic operations on files using unix. Also focus on changing permission models.

Section-D

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