

Roll No.

2216

**B. E. 5th Semester (I. T.)
Examination – December, 2011**

**SYSTEM PROGRAMMING & 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 any *five* questions.

1. (a) Compare & contrast compilers, Interpreters and Assemblers. 10

- (b) What is a programme generator ? Why is it used ?
Write its advantages & disadvantages. 10

2. (a) Explain the compilation process with the help of a diagram. 10
- (b) What is a loader ? Explain direct linking loader in detail. 10
3. What is a macro language and microprocessor ? Explain conditional macro expansion and macro cells within macro by giving suitable examples. 20
4. (a) What is memory management ? Explain the concept of demand paging in context of UNIX operating system. 10
- (b) What is difference between Unix operating system & other operating systems ? Also write the features of UNIX O/S. 10
5. What is a file and a directory ? How the contents of the file can be looked into ? How the files are sorted and splitted in UNIX operating system ? Explain with help of an example. 20
6. Explain the following in context of UNIX O/S : 20
- (i) Absolute & Relative pathnames

- (ii) Filters & Pipelines
 - (iii) Stopping background processes
 - (iv) Changing permission modes
7. (a) What is Borne Shell ? How is it different from C-Shell ? 10
- (b) What do you mean by interactive shell scripts ? Explain with the help of an example. 10
8. (a) What is system administrator ? What are its main functions ? 10
- (b) Write short notes on : 10
- (i) Booting the system
 - (ii) Linux O/S