

Roll No.

2216

B. E. 5th Sem. (I.T.)

Examination – December, 2013

SYSTEM PROGRAMMING & SYSTEM ADMN

'E' Scheme

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 complain in this regard, will be entertained after examination.

Note : Attempt any *five* questions. All questions carry equal marks.

1. (a) Discuss evolution of system programming. Also describe pros and cons of each component of system programming. 10
- (b) Discuss the designing of two phase assembler. How its functioning is better than single phase assembler? 10
2. (a) What are the functions of a loader? Discuss advantages and disadvantages of various loading schemes. 10

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(b) Discuss the following with applications: 10

(i) Subroutine linkage

(ii) Binders

(iii) Linking Loaders

3. Explain the working of Macro processor with example. Also discuss various databases required by Macro processor. 20

4. (a) Describe various features of UNIX. Explain Memory Management scheme of UNIX. 10

(b) Explain how user to user communication take place in UNIX. 10

5. Discuss general format of a UNIX command. Describe various file and directory related commands with example. 20

6. (a) List out various editors supported by UNIX. Discuss various modes and commands related to Vi editor. 10

(b) Discuss Standard Input, Standard Output and Standard Error. 10

7. (a) Write a program in BASH-shell to find a substring from a string of specified length and from specified position. 10

(b) Explain various shell programming constructs of C-shell by giving suitable example. 10

8. (a) Describe various commands with syntax required for management of File system. 10

(b) Compare and contrast UNIX and LINUX operating system. 10

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