

9. (a) How would you backing up and restoring over the network. 8

(b) Write the short note on : 12

- (i) Contents of BIOS start up Screen
- (ii) File system and special files

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(4)

Roll No.

24250

B. Tech. 5th Semester (IT)

Examination – December, 2016

SYSTEM PROGRAMMING & SYSTEM

ADMINISTRATION

Paper : IT-303-F

Time : Three Hours]

[Maximum Marks : 100

Before answering the question, 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 atleast one question from each Section and Question No. 1 is compulsory.

1. (a) How we can use 'Debug Monitor in Graphical Mode'. 3
- (b) Discuss briefly the three 'Types of incremental compilers'. 3
- (c) Briefly explain MACRO Arguments. 3
- (d) Write a short note on 'inode applications'. 3
- (e) Explain the following UNIX commands with syntax : 3
 - (i) Finger
 - (ii) Lost
 - (iii) Last

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- (f) Write a short note on symbol table. 3
 (g) Briefly explain context switching. 2

SECTION - A

2. (a) What is system programming ? What is its importance ? What are the important tool and techniques that help in system programming ? Illustrate. 10
 (b) What is the function of loader ? Explain the design and working of compile and go loader with example. 10
3. (a) What is the term 'bind' ? At what point in time do each of the following loading scheme perform binding : 12
 (i) Direct linking loader
 (ii) Absolute loader
 (iii) Reallocating loader
 (iv) Compile and go loader
- (b) Briefly explain the features of text editors. 8

SECTION - B

4. What do you mean by Macro ? How macros are designed, explain with example ? Discuss the features of all macro facility with applications ? 20
5. (a) Discuss the directory structure of UNIX with diagram. 8

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- (b) State and explain the basic tasks of macro processor. Draw flow chart for processing macro definitions in two pass macro processor. 12

SECTION - C

6. (a) Explain UNIX operating system. Also discuss the architecture of UNIX O.S. 10
 (b) Write short note on : 10
 (i) Inspect the file contents
 (ii) Search for Pattern
7. (a) What do you mean by UNIX files ? Briefly explain types of files. 10
 (b) How would you translate characters in UNIX ? Discuss the command used in UNIX for translating characters with its syntax and various options. 10

UNIT - IV

8. (a) Discuss the error and Fault handling in UNIX. 12
 (b) Write a note on Shadow password. 8

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P. T. O.