

Roll No.

Total Pages : 3

BT-6/M-23

46173

UNIX AND LINUX PROGRAMMING

Paper-PC-IT-207A

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt *five* questions in all, selecting atleast *one* question from each Unit.

UNIT-I

1. (a) Write atleast *three* types of shells and how to change shell. (5)
(b) Write a program to find largest of three numbers. (10)
2. Write the command and its syntax for following action :
 - (i) View name of files in descending order by time wise.
 - (ii) Create new user with shell specified.
 - (iii) View test.test files with permission and change permission from rw-r—rw- to rwxrw-r-- (15)

UNIT-II

3. (a) Explain the significance of single quote and double quote.
(b) Define grep. Write a grep command to display the lines which does not matches all the given pattern and find names "Deepak" , "Dipak" and "Deepk". (15)

4. (a) What is use of sed in linux and write commands to delete all lines in file and replace a Particular word in that file.
- (b) What do you mean by filter in linux and write commands for
- (i) Case insensitive search.
 - (ii) Displaying the count of number of matches.
 - (iii) Show line number while displaying the output.
- (15)

UNIT-III

5. (i) What are different options of gcc compiler options for :
- (a) create only object files from test.c files.
 - (b) create executable files from test.c files.
 - (c) create executable files from object files.
 - (d) Debug the program and show warning.
- (ii) Create makefile to execute and delete atleast two .c files.
- (15)
6. (a) Write the commands of vi-editor for deleting character and word, copy single lines and three lines, paste, cursor navigation and save.
- (b) What is format of du and df command. Write atleast two syntax format options of these commands and their uses.
- (15)

UNIT-IV

7. (a) What is process? Write command to view all the process in system including hidden process, stop a particular process, sending background to foreground and foreground to background process.

- (b) What is signal and write signal of rc, stopping the process and priority? (15)

8. (a) What is difference between linux OS and Windows OS? Why Linux is considered more advanced and secure than windows.
- (b) Write the uses of telnet and ftp server. Write the commands to start, stop and status to check the status of ftp server.
- (c) What is job scheduling and write the syntax to set job scheduling using at and crontab command to create directory after 10 minute and 10/5/2023 at 9:30 am.
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