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**B.Sc. (Entire Computer Science) – II (Semester – IV) (New-CBCS)  
Examination, 2018  
Paper – III : LINUX OPERATING SYSTEM**

Day and Date : Saturday, 5-5-2018  
Time : 10.30 a.m. to 1.00 p.m.

Total Marks : 70

**Instructions :** 1) *All questions are compulsory.*  
2) *A figure to the right place indicates full marks.*

1. Choose correct alternatives : 14
- 1) Which of the following command is used with file named 'letter' to remove the executable permission from the user and add read permission to the group and others ?  
A) `chmod u-x,go+r letter`                      B) `chmod u+x,go-r letter`  
C) `chmod ug-x,o=r letter`                      D) `chmod u+rw,go-x letter`
  - 2) Which command is used to extract specific columns from the file ?  
A) Cat                      B) Grep                      C) Cut                      D) Paste
  - 3) Which command is true to create a file ?  
A) `cat >> file name`                      B) `cat << file name`  
C) `cat < file name`                      D) `cat > file name`
  - 4) Which of the following is not the category of Linux file system ?  
A) Ordinary file                      B) System file  
C) Device file                      D) Directory file
  - 5) The `chmod` command is used to change directories.  
A) True                      B) False
  - 6) The state of the file system is contained in \_\_\_\_\_  
A) Boot block                      B) Swap block  
C) Super block                      D) Root block

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- 7) The shell metacharacter \$# represents \_\_\_\_\_  
A) Total number of arguments supplied to the shell script  
B) Total number of files in the current directory  
C) Total number of users who have Plogged in  
D) Total number of processes running in the background
- 8) The “nice” command is used to \_\_\_\_\_  
A) Communicate with other users  
B) Improve relationships  
C) Change priority levels of running processes  
D) Create processes
- 9) \_\_\_\_\_ directory contains the configuration files of the system.  
A) /dev                      B) /etc                      C) /bin                      D) /usr
- 10) The cp command is used \_\_\_\_\_  
A) to copy a single file                      B) to copy more than one file  
C) both A) and B)                      D) none of these
- 11) Which of the following command is used to see the content of “backup.tar” file without extracting it ?  
A) tar-xvf backup.tar                      B) tar-svf backup.tar  
C) tar-tvf backup.tar                      D) tar-dvf backup.tar
- 12) The symbol \_\_\_\_\_ sends the output of a command to a file or a device.  
A) >                      B) <                      C) \$                      D) #
- 13) \_\_\_\_\_ is the extension of Shell Program file.  
A) Unix                      B) Sh                      C) Dd                      D) Cc
- 14) How would you search a string ‘college’ at the end of the line in a ‘university’ file ?  
A) grep ‘college#’ university                      B) grep ‘college!’ university  
C) grep ‘college\$’ university                      D) grep ‘college^’ university

2. Answer **any seven** of the following :

**14**

- 1) List the functions of Kernel.
- 2) Give the advantages of shell scripts.
- 3) What are the importance of /bin directory ?

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- 4) Give the advantages of vi editor.
  - 5) What is job ? How can you move a job from the foreground to the background ?
  - 6) What is the purpose of boot block ?
  - 7) Give the syntax of head command.
  - 8) Differentiate between egrep and fgrep.
  - 9) What is the use of pipe operation ?
3. A) Answer **any two** of the following : **10**
- 1) What is LILO ? Explain in detail with its uses.
  - 2) Explain the following command.
    - a) pwd
    - b) lpr
    - c) cut
  - 3) Write down role of system administrator.
- B) What is the purpose of find command ? Also discuss any 3 options with examples. **4**
4. Answer **any two** of the following : **14**
- 1) Explain line addressing and context addressing in “Sed” with example.
  - 2) List and explain different features of Linux operating system.
  - 3) Write a menu driven shell script :
    - a) To sort a file by 5 field with 2 column
    - b) To assign the write and read permission to a owner, add execute to all
    - c) To remove directory with its subdirectories.
    - d) Find files from current directory by inode number.
5. Answer **any two** of the following : **14**
- 1) List and explain Linux commands to communicate with other users.
  - 2) How to mounting and unmounting a Hard drive device ? Explain it.
  - 3) Explain management tools commands.
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