

END TERM EXAMINATION

SIXTH SEMESTER [BCA] APRIL-MAY 2019

Paper Code: BCA-306

Subject: Linux Environment

Time: 3 Hours

Maximum Marks :75

Note: Attempt five questions in all including question no.1 which is compulsory.

Q1 Answer the following (any ten):-

(2.5X10=25)

- (a) Difference between info and man command.
- (b) Difference between whoami, w and who command in Linux.
- (c) Explain vi editor with mode.
- (d) Difference between mount & umount —
- (e) How to use environment variable in Linux?
- (f) What is run level? —
- (g) Explain concept of /etc/passwd.
- (h) Which command is used to remove duplicate sentence in Linux
- (i) Difference between Hard Link and Soft Link.
- (j) What is the difference between pipes and filters? Give two examples of each.
- (k) Show the "grep" command and its working using example.—
- (l) There is one command in unix which is named after T splitter used in plumbing. Name that command and discuss its utility. Is there any similarity in function with plumbing?

UNIT-I

- Q2 (a) Difference between ext3 and ext4 file systems. (6.5)
(b) Explain Linux Directory Structure with suitable diagram. (6)
- Q3 Explain in details the Linux file systems architecture with suitable diagram. (12.5)

UNIT-II

- Q4 (a) Explain file security. How to change the permission of file & directory? (6)
(b) What is archive? How to compress any file of directory using archives command? (6.5)
- Q5 (a) How to set default permissions in Linux? It is possible to change permission of super user in Linux. (6)
(b) What is Inode? Explain with suitable diagram. (6.5)

UNIT-III

- Q6 How to use special permission in Linux? Explain its types with suitable example. (12.5)
- Q7 Explain the following Commands: (12.5)
(a) tail (b) tr (c) wc (d) diff (e) Sort (f) aspell (g) uniq (h) sed (i) ~~cat~~ /j) awk

UNIT-IV

- Q8 (a) What is System call? Explain any five system calls which are used in Linux. (6.5)
(b) What is process state? Explain its types. (6)
- Q9 (a) How to show current process list in Linux? Suppose if you want to change the priority of any process, how to change it. (6.5)
(b) Explain Linux Kernel & Debugger. (6)
