

END TERM EXAMINATION

SIXTH SEMESTER [BCA] MAY-JUNE 2014

Paper Code: BCA-306

Subject: Linux Environment
(2011 Onwards)

Time: 3 Hours

Maximum Marks: 75

Note: Attempt any five questions including Q.1 which is compulsory.
Select one question from each unit.

- Q.1 (a) Explain the architecture of Linux. (5)
 (b) What are different ways of managing & switching users in Linux? (5)
 (c) Differentiate between TCHS and Korn shell. (5)
 (d) How Linux & Unix is related? Explain. (5)
 (e) What is a process in Linux? Explain briefly. (5)

UNIT - I

- Q.2 (i) Differentiate between ext2, ext3 and ext4 file systems. (6)
 (ii) What are different run levels in Linux? Explain methods to change these run levels. (6.5)
- Q.3 (i) Explain in details the Linux file systems architecture with diagram. (10)
 (ii) What is Archiving? Give two examples of archive commands. (2.5)

UNIT - II

- Q.4 (i) What are redirection operators? Explain the usage with examples. (6)
 (ii) Differentiate between symbolic link and hard link. (6.5)
- Q.5 (i) Describe the level of security in Linux. (6)
 (ii) What is mounting and unmounting? Explain. (6.5)

UNIT - III

- Q.6 (i) Differentiate between sed and grep with examples. (6)
 (ii) What is a sticky bit? Explain the usage. (6.5)
- Q.7 (i) Explain the contents of /etc/passwd' file. (2.5)
 (ii) Explain the usage of following commands (2x5=10)
 (a) cut
 (b) tr
 (c) diff
 (d) uniq
 (e) wc

UNIT - IV

- Q.8 (i) Explain how Linux OS schedules the processes. (7.5)
 (ii) Explain the role of a process descriptor in Linux. (5)
- Q.9 (i) Explain the ways to track the processes in Linux. (7.5)
 (ii) Explain the usage of system calls in Linux with example. (5)
