

# END TERM EXAMINATION

SIXTH SEMESTER [BCA] MAY- JUNE 2015

Paper Code: BCA-306

Subject: Linux Environment  
BATCH- 2011 ONWARDS

Time: 3 Hours

Maximum Marks: 75

Note: Attempt all questions as directed. Internal choice is indicated

- Q1 Explain briefly: - (5x5=25)
- (a) Explain the use of /etc, /bin, /usr directory in LINUX.
  - (b) How to identify default file permissions in Linux and what are the ways to change these permissions in Linux.
  - (c) What are different modes of vi editor?
  - (d) Explain the usage of sticky bit?
  - (e) What is Zombie process?

### UNIT-I

- Q.2 (a) What are different redirection operators in Linux? Explain. (5)  
 (b) Compare "ext2", "ext3" and "ext4" file systems. (7.5)
- Q.3 (a) Explain the Linux's relationship to Unix. (5)  
 (b) What are different run levels in Linux? How to change within these run levels. (7.5)

### UNIT-II

- Q.4 (a) "Linux is the most secured operating system." Discuss. (6)  
 (b) What is Inode in Linux? Differentiate between Hard Link and Soft Link? (6.5)
- Q.5 (a) Explain different commands to create archives in Linux. (7.5)  
 (b) Write the steps to mount and unmount a pen drive on Linux machine. (5)

### UNIT-III

- Q6 (a) Explain the usage & options of following commands:- (3x2=6)  
 1) tail  
 2) cut  
 3) diff  
 (b) What is sed? Explain the different purpose of sed with example. (6.5)
- Q7 (a) Write shell script to print greatest of three numbers entered by the user. (7.5)  
 (b) Write a shell script to print table of a number given by the user. (5)

### UNIT-IV

- Q8 (a) What is Process in Linux? Explain types of Processes in Linux? (7.5)  
 Explain the role of process descriptor in Linux. (5)  
 (b) Explain different process related commands with syntax? (5)
- Q9 (a) What are different Linux scheduling algorithms? (6.5)  
 (b) Write short notes on: (3x2=6)  
 (1) System calls  
 (2) Kernel debuggers

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