BCACAC 312

Credit Based Fifth Semester B.C.A. Degree Examination, Nov./Dec. 2015
(New Syllabus) (2014-15 Batch Onwards)
LINUX ENVIRONMENT

Time : 3 Hours   Max. Marks : 100

Note : *Answer* **any ten** *questions from Part* **A** *and answer* **any one**
full question from **each** *Unit in Part* **B.**

PART – A

1. a) What is a path name ? Define absolute path name and relative
      path name.   (10×2=20)
   b) Give the difference between boot block and super block.
   c) Give the differences between .and..
   d) What is the importance of buffer cache in kernel architecture ?
   e) Give the syntax of unmount and unlink system call.
   f) Define a stream.
   g) Define the term 'line discipline' in terminal driver.
   h) Expand the term KDE and GNOME.
   i) What is Gedit ?
   j) What is GParted ?
   k) What is the use of back up files ?
   l) Define LAN, WAN.

PART – B
Unit – I

2. a) Name any five services of operating system.   (6+8+6)
   b) Explain the kernel architecture of UNIX system with a neat diagram.
   c) Write a note on the structure of the buffer pool.

3. a) Give the structure of the disk inode.   (6+8+6)
   b) Give the structure of a regular file with direct and indirect block.
   c) Write a note on reading and writing disk blocks.

Unit – II

4. a) Define and explain the function of open system call.   (7+6+7)

   b) What is the importance of lseek system call ? Explain with syntax.

   c) Write the function of pipe system call.

5. a) Write a note on disk driver.   (4+6+4+6)

   b) Write a note on streams.

   c) Explain socket model with diagram.

   d) Write a note on link system call.

Unit – III

6. a) Define and explain the features of LINUX.   (10+4+6)

   b) Give the difference between RPM based distributions and Deb based distributions with example.

   c) Write a note on components of LINUX window.

7. a) Explain the brief K desktop environment.   (8+6+6)

   b) Write a note on LINUX files and folders.

   c) Give the structure of LINUX file system. Explain with example.

Unit - IV

8. a) Write a note on powers of an administrator in LINUX OS.   (6+6+8)

   b) Write a note on Ubuntu software center tool.

   c) Explain the services provided by the internet.

9. a) How can we configure computer network in LINUX ? Explain with example.

   b) How can we differentiate a web and website ? Explain with example.

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