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**BCACAC 312**

**Credit Based Fifth Semester B.C.A. Degree Examination, Oct./Nov. 2014  
(New Syllabus 2014-15 Batch)  
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 are the companies involved in developing multics ? (10×2=20)
- b) What is the use of following system call ?
  - i) brk()
  - ii) signal()
- c) What is super block ? List any 4 components of super block.
- d) Write the purpose of following algorithm
  - i) bmap
  - ii) alloc
- e) List the conditions of buffer status field.
- f) What are the three stages of device configuration ?
- g) Explain 1 seek system call.
- h) Expand the term KDE and GNOME.
  - i) Define kernel. List the activities of LINUX kernel.
  - j) Name any two web browsers in LINUX.
- k) Write the functions of LINUX package manager.
  - l) Define the term ISP. Write the use of ISP.

P.T.O.



## PART - B

## UNIT - I

2. a) Explain block read ahead algorithm (breada).  
b) Discuss UNIX file system with diagram.  
c) List the features of UNIX file system.  
d) Explain with figure the table of contents field of an inode. (8+4+4+4)
3. a) Explain the various services of UNIX operating system.  
b) Explain the Kernel architecture of the UNIX system with neat diagram.  
c) Explain the structure of Buffer Pool. (6+8+6)

## UNIT - II

4. a) With syntax explain following System Call  
i) Write  
ii) Mknod  
iii) Mount  
iv) Creat  
v) Pipe  
b) List the functions of line discipline.  
c) Explain the properties of System V IPC package. (10+4+6)
5. a) Write a note on Disk Driver.  
b) Explain sockets model with diagram.  
c) Explain Read and Link System call.  
d) Explain system configuration with diagram. (4+6+4+6)

## UNIT - III

6. a) List and explain the features of GNOME desktop.  
b) Give the difference between RPM based distributions and Deb based distributions with example.  
c) Explain in brief the K desktop environment. (8+6+6)





- 7. a) Write a note on components of LINUX window.
- b) How can we create files and folders in LINUX ?
- c) Explain the features of LINUX.

(8+6+6)

UNIT – IV

- 8. a) How can we write the contents to CD/DVD in LINUX ?
  - b) Explain the services provided by the internet.
  - c) Write a note on Ubuntu software center tool.
- 9. a) How can we differentiate a web and website ? Explain with example.
  - b) Differentiate P2P networking and client/server networking with a diagram.
  - c) Write the uses of the following internet applications in LINUX
    - i) Chromium
    - ii) Ekiga
    - iii) Elinks
    - iv) Filezilla

(8+6+6)

(8+6+6)