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BCACAC 312

**Credit Based Fifth Semester B.C.A. Degree Examination, April/May 2022
(Common to all Batches)
LINUX ENVIRONMENT**

Time : 3 Hours

Max. Marks : 100

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

PART – A

Answer **any ten** of the following :

(10×2=20)

1. a) List any two characteristics of Unix File System.
- b) What is pathname ? Define full pathname and relative pathname.
- c) Write a note on special files.
- d) Differentiate user mode and kernel mode.
- e) Mention any two mechanisms of System V IPC.
- f) Define Socket.
- g) Expand GNOME and KDE.
- h) What do you mean by freeware and free software ?
- i) What is Gedit ?
- j) Define LAN and WAN.
- k) What is Live USB ?
- l) Mention any four Internet applications available in Linux.

PART – B

Unit – I

2. a) Explain the services of Unix Operating System.
- b) Explain the various fields of disk inode.
- c) Explain the kernel architecture of Unix system with a neat diagram.

(5+7+8)

P.T.O.



3. a) Explain the high level architecture of Unix system with diagram.
b) Explain the fields of Superblock.
c) Explain the buffer header with a neat diagram. (7+7+6)

Unit – II

4. a) Explain sockets model with diagram.
b) Write a note on system configuration.
c) Explain i) Stream ii) Process tracing. (6+6+8)
5. a) Write a note on network communication.
b) Explain the functions of line discipline.
c) Explain with syntax the following system calls.
i) create
ii) write
iii) close
iv) unlink
v) mount (4+6+10)

Unit – III

6. a) Write a note on Linux files and folders.
b) Explain in brief the K Desktop Environment.
c) Write a note on components of Linux window. (6+8+6)
7. a) Explain any six features of Linux.
b) Describe the RPM and Deb based distribution.
c) Explain Linux file system structure. (6+8+6)

Unit – IV

8. a) Differentiate P2P networking and client server networking with a diagram.
b) Explain the services provided by the internet.
c) How can we differentiate web and website ? Explain with example. (8+6+6)
9. a) How can we write the contents to CD/DVD in Linux ?
b) Write a note on the powers of an administrator in Linux OS.
c) Write a note on Ubuntu software center tool. (8+6+6)