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BCACAC 312

Credit Based Fifth Semester B.C.A. Degree Examination, Oct./Nov. 2016
LINUX ENVIRONMENT
(New Syllabus) (2014-15 Batch Onwards)

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

1. a) What do. and .. in a directory mean ? (10×2=20)
- b) What is the function of process control subsystem of the kernel architecture ?
- c) Write a short note on special files.
- d) What is the function of the disk driver ?
- e) Define a socket.
- f) Define the term 'line discipline' in terminal driver.
- g) Write a note on Linux kernel.
- h) Write a note on X Window system.
- i) Define Dolphin and Nautilus.
- j) What is Live USB ?
- k) What are the various types of Linux packages ?
- l) What is meant by intranet ?

PART – B

Unit – I

2. a) Explain the high-level architecture of UNIX system with a neat diagram.
- b) Write a note on allocation of disk blocks. Explain with example.
- c) Explain bread algorithm. (6+7+7)
3. a) Discuss UNIX file system with diagram.
- b) List out the contents of the super block.
- c) Explain the buffer header with a neat diagram. (6+6+8)

P.T.O.

**Unit – II**

4. a) Write a note on network communications.
b) Define and explain the function of open system call.
c) Explain the terminal driver. **(6+7+7)**
5. a) Explain with syntax the following system calls.
i) Create ii) Write iii) Pipe
b) With syntax explain the link and unlink system calls.
c) Write a note on :
i) Streams ii) Process tracing. **(6+6+8)**

Unit – III

6. a) Discuss the various forms of software.
b) Write a note on Linux files and folders.
c) With diagram, explain the components of GNOME Desktop Startup Screen. **(6+6+8)**
7. a) How can we create files and folders in LINUX ?
b) Discuss about Linux opportunities.
c) Explain applications available in Linux Desktop Environments. **(6+6+8)**

Unit – IV

8. a) How can we configure computer network in LINUX ? Explain with example.
b) Explain websites with its structure.
c) Write a note on the following :
i) Disk partitions
ii) Monitoring the system. **(6+6+8)**
9. a) Write a note on Ubuntu software center tool.
b) Write the uses of the following internet applications in LINUX :
i) Bluefish ii) CheckGmail iii) Chromium
iv) Evolution v) Elinks vi) Filezilla
c) How can we write the contents to CD/DVD in LINUX ? **(6+6+8)**