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BCACAC 312

Credit Based Fifth Semester B.C.A. Degree Examination, Oct./Nov. 2017 (Common to all Batches) (New Syllabus) LINUX ENVIRONMENT

Time: 3 Hours

Max. Marks: 100

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

PART - A

(10×2=20)

- a) Differentiate the user mode and the kernel mode.
 - b) Define i-node. Name the fields of i-node.
 - c) What is the difference between block device special file and character device special file?
 - d) Define the pipe. Name the types.
 - e) What are the three stages of device configuration?
 - f) Define a socket.
 - g) Name the different applications of OpenOffice.org.
 - h) Name the different wildcard characters used in LINUX.
 - i) Define Dolphin and Nautilus.
 - i) What is Live USB?
 - k) What is IP address? Give the difference between IPv4 and IPv6.
 - I) Define P2P networking.



PART - B

Unit - I

- 2. a) Give the structure of the buffer header with a neat diagram.
 - b) Explain breada algorithm.
 - c) What is the difference between disk i-node and in-core i-node? Explain the structure of in-core i-node. (5+7+8)
- 3. a) List out the contents of the super block.
 - b) Name any five services of operating system.
 - c) Give the structure of a regular file with direct and indirect block. (7+5+8)

Unit - II

- 4. a) Define and explain the following system calls with syntax.
 - i) Read
 - ii) Write
 - iii) Close
 - iv) Create.
 - b) What is the difference between mount and link system call? Explain with syntax and example.
 - c) Explain the properties of system V IPC package.

(8+6+6)

- 5. a) Name the functions of the line discipline.
 - b) Write a note on disk driver.
 - c) Explain socket model with a diagram.
 - d) Write a note on network communications.

(5+5+5+5)

Unit - III

- a) Give the difference between RPM based distributions and Deb based distributions with example.
 - b) Write a note on components of LINUX window.
 - c) Write a note on LINUX distributions.

(6+6+8)



- a) Explain in brief K desktop environment.
 - b) Define and explain the components of file manager window.
 - c) Write a note on managing files and folders in LINUX.

(8+6+6)

Unit - IV

- 8. a) How can we differentiate a web and website? Explain with example.
 - b) Write the uses of the following internet applications in LINUX.
 - i) aMSN
 - ii) Blogtk
 - iii) Bluefish
 - iv) CheckGMail.

(8+12)

- 9. 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 Synaptic Package Manager.
 - d) Write the uses of the following internet applications in LINUX.
 - i) Ekiga
 - ii) gFTP.

(5+5+4+6)