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13MCA14

First Semester MCA Degree Examination, Dec.2016/Jan.2017
Introduction to UNIX

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. Explain the architecture of UNIX, with a neat diagram. (10 Marks)
b. Explain the following commands in UNIX : (10 Marks)
i) cat ii) cal iii) date iv) uname v) bc.
- 2 a. Explain the UNIX file system, with neat diagram. (10 Marks)
b. Differentiate between the absolute and relative path names, with examples. (04 Marks)
c. Mention the different categories of files that exist in UNIX. Discuss each of them. (06 Marks)
- 3 a. Explain if conditional and case statement with examples. (06 Marks)
b. Explain the set and shift commands for manipulating the positional parameters. (05 Marks)
c. Write a shell script that accept one or more file names as argument and convert all of them uppercase, provided they exist in current directory. (05 Marks)
d. Explain logical operators && and | with example. (04 Marks)
- 4 a. Explain `ls -l` command and `ls -d` command. (10 Marks)
b. Differentiate between hard link and symbolic link (04 Marks)
c. With examples explain absolute permission. (06 Marks)
- 5 a. Explain the following commands : (10 Marks)
i) head ii) cut iii) paste iv) uniq v) tr
b. Explain line addressing, context addressing and text editing commands, with examples in sed. (10 Marks)
- 6 a. What is awk? Explain any four built in variables in awk, with examples. (10 Marks)
b. Write an awk script to delete duplicated line from a text file. The order of the original lines must remain unchanged. (05 Marks)
c. Explain the associated array in awk, with an example. (05 Marks)
- 7 a. Explain the grep command, with any four options. (10 Marks)
b. Who is system administrator? Outline his jobs and write the privileges of a system administrator. (10 Marks)
- 8 a. Explain the mechanism of process creation. (10 Marks)
b. Explain the following with respect to a process (10 Marks)
i) nice ii) at iii) batch iv) cron v) time.

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.