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16MCA12

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

Time: 3 hrs.

Max. Marks: 80

Note: *Answer FIVE full questions, choosing*
ONE full question from each module.

Module-1

1 a. Describe the architecture of UNIX operating system. (08 Marks)
   b. Explain the following commands with syntax i) stty ii) tput iii) bc iv) script. (08 Marks)

OR

2 a. Explain the different modes of vi editor with neat diagram. (08 Marks)
   b. What are logical operators? Explain different logical operators. (08 Marks)

Module-2

3 a. What are the absolute and relative path names? Give examples. (08 Marks)
   b. Explain chmod command. (08 Marks)

OR

4 a. Explain the UNIX file system with neat diagram. (08 Marks)
   b. What are hardlinks and softlinks? Explain with examples. (08 Marks)

Module-3

5 a. List and explain the various options of P_r command. (08 Marks)
   b. What are regular expression? Give various options of grep command. (08 Marks)

OR

6 a. What is sed command? Explain the options of sed command with examples. (08 Marks)
   b. Write a shell script which accepts valid login names as arguments and prints their corresponding home directories? If no arguments print suitable error message. (08 Marks)

Module-4

7 a. What is AWK? Explain built in variables used in AWK. (08 Marks)
   b. Explain the if and while statements in awk. Using examples explain the same. (08 Marks)

OR

8 a. Explain the logical and relational operators in awk with suitable examples. (08 Marks)
   b. Explain the associative array in awk with suitable examples. (08 Marks)

Module-5

9 a. Explain the UNIX start up and shut down processes. (08 Marks)
   b. What are internal and external commands? Explain with suitable examples. (08 Marks)

OR

10 a. Explain the various commands used to customizing the UNIX environment. (08 Marks)
    b. Explain the following commands : i) nice ii) at and batch iii) CPIO, iv) tar. (08 Marks)

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