

CBCS Scheme

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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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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.