

CBCS SCHEME

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17CS35

Third Semester B.E. Degree Examination, Aug./Sept.2020 Unix and Shell Programming

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. Explain how 'man' command helps to get the manual help pages in Unix. (08 Marks)
b. Discuss internal and external commands, with suitable examples. (04 Marks)
c. Explain features of Unix OS. (08 Marks)

OR

- 2 a. Illustrate how to display and set the terminal characteristics of Unix OS. (06 Marks)
b. Describe command arguments and options, with suitable examples. (06 Marks)
c. How to become a super user? Explain. i) How to add users to group
ii) How to delete users from a group iii) How to create and delete user groups. (08 Marks)

Module-2

- 3 a. Illustrate with diagram the typical Unix file system and also explain different types of files supported in Unix. (08 Marks)
b. With syntax and examples, explain the commands used for creating, deleting and changing the directory. (08 Marks)
c. List and explain `ls` command and its various options. (04 Marks)

OR

- 4 a. What is Pathname? List and explain types of pathnames with examples. (08 Marks)
b. What are File Permissions? Describe different ways of changing the file permissions. (08 Marks)
c. Give syntax and examples for `chown` and `chgrp` commands. (04 Marks)

Module-3

- 5 a. With suitable examples, explain all input mode commands in Vi editor. (08 Marks)
b. In brief, explain `save` and `exit` commands in `ex` mode. (08 Marks)
c. With respect to Vi editor, explain the following commands :
i) `b` ii) `w` iii) `G` iv) `J`. (04 Marks)

OR

- 6 a. Discuss the three standard files supported by Unix. (08 Marks)
b. With the help of examples, explain `grep` command and list `grep` options and their significance. (08 Marks)
c. Write the steps of Shell interpretive cycle. (04 Marks)

Module-4

- 7 a. Define a Shell script and design a menu driven shell script which outputs :
i) List of files ii) Current system display settings.
iii) Present working directory iv) HOME directory of a User. (08 Marks)

1 of 2

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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.

- b. Explain how test statement is applicable to numeric and string comparisons. (08 Marks)
c. List all special or positional parameters used by the shell. (04 Marks)

OR

- 8 a. With syntax, explain following statements in shell script with examples i) if ii) case. (08 Marks)
b. What are links? How to create different types of links? And list their differences. (06 Marks)
c. List all options used by test in file related operations. (06 Marks)

Module-5

- 9 a. What is Process? Explain different mechanisms of process creation. (06 Marks)
b. Explain i) Running jobs in background (& and nohup) ii) Execute later (at and batch). (08 Marks)
c. Explain find commands with examples and options. (06 Marks)

OR

- 10 a. Discuss String handling functions of PERL, with examples. (08 Marks)
b. Explain variables and operators in PERL. (06 Marks)
c. Write a PERL program to find whether a given number is odd or even using command line arguments. (06 Marks)

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