Third Semester B.E. Degree Examination, Dec.2018/Jan.2019
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. By writing a neat diagram, explain the architecture of UNIX. **(10 Marks)**

b. Discuss the following commands
i) ls ii) who iii) cat iv) echo **(10 Marks)**

OR

2 a. Explain the features of UNIX. **(10 Marks)**

b. Explain the commands used to add, modify and delete users. **(10 Marks)**

Module-2

3 a. What is a file? Explain different categories of files. **(10 Marks)**

b. By giving example, explain the following commands.
i) pwd ii) cd iii) mkdir iv) rmdir. **(10 Marks)**

OR

4 a. Discuss ls commands with options. **(10 Marks)**

b. Explain absolute method of changing permissions by giving example. **(10 Marks)**

Module-3

5 a. Explain different modes of Vi editor **(10 Marks)**

b. Discuss ex-mode commands of Vi editor. **(10 Marks)**

OR

6 a. Explain shell interpretive cycle. **(04 Marks)**

b. Which are standard files used in UNIX? Explain. **(08 Marks)**

c. By giving examples, explain extended regular expression. **(08 Marks)**

Module-4

7 a. With example, explain logical operators in shell programming. **(05 Marks)**

b. Discuss for statement in shell script with example. **(05 Marks)**

c. Write a shell program to do the following :
i) List of files ii) Processes of user iii) Today's date vi) Users of the system.
Using case conditional. **(10 Marks)**

OR

8 a. Discuss head and tail commands along with its options. **(10 Marks)**

b. By specifying examples, explain hard and soft links. **(10 Marks)**

Module-5

9 a. Along with the options and examples, explain ps command. **(10 Marks)**

b. By giving example, explain nice and nohup commands. **(10 Marks)**

OR

10 a. Explain string handling function of perl. **(06 Marks)**

b. With example, explain split and join function of perl. **(06 Marks)**

c. What is subroutine? Explain by giving example. **(08 Marks)**