322555(22)

B. E. (Fifth Semester) Examination, Nov.-Dec. 2021

(New Scheme)

(CSE Branch)

UNIX & SHELL PROGRAMMING

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

*Note : Attempt all questions. Part (a) of each question is compulsory and carries 2 marks. Attmept any **two** parts from (b), (c) and (d) and carries 7 marks each.*

Unit-I

1. (a) Write commands to delete a directory and a regular file.

   (b) Explain the architecture and major features of UNIX OS.

(c) How does command chmod work in relative and absolute manner? Explain with an example.

(d) Write a menu based shell script to display : (i) List of files (ii) Current date (iii) Total number of file in current directory (iv) List of users currently logged in (v) Path of current directory.

Unit-II

2. (a) What do you understand by the term alias? Explain with an example.

(b) What is quoting? What are the three quote tokens?

(c) Write a shell script to copy the content of one file into another file.

(d) Write short note on :
   (i) Command Substitution
   (ii) Job Control

Unit-III

3. (a) Explain the operations performed by grep utility for each line in standard input.

(b) Explain different addressing modes used in sed utility.

(c) Explain any five string functions with syntax available in awk utility. Support your answer with example.

(d) Write a shell script that takes file name as an argument and search a specific word on these files one by one. It stops as soon as the searched word is found in the file and report the name of the file.

Unit-IV

4. (a) Explain let command with an example.

(b) Explain Startup Process in Korn shell. What is the significance of System Profile file, Personal Profile file and Environment file?

(c) How can we debug a script using verbose and xtrace option? Explain with an example.

(d) Write a Korn Shell script that compare two files and if no difference is found then remove the second file.

Unit-V

5. (a) What is Arithmatic Command in C shell? Explain with an example.

(b) State the name and significance of two special files used by C shell.

(c) Write a C shell script to create a simple calculator which continuously takes in values until user choose to exit.

(d) Write short notes on :

    (i) INODE

    (ii) Exit status of a command in C shell