

[4]

5. Write a shell script to check if the number entered at the command line is prime or not.

OR

Explain the Unix file system along with the Inode table.

6. Write a shell script to find the sum of digits of a given number.

OR

Write a shell script which deletes all lines containing the word unix in the files supplied as arguments to this shell script.

7. Write a shell script to find the greatest number among the three numbers.

OR

Write a shell script which displays a list of files in the current directory to which you have read, write and execute permission.



V - S - BCA - DSE - I - (Unix Prog.)

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2023

Full Marks - 60

Time - As in the Programme

The figures in the right hand margin indicate marks.

Answer ALL questions.

Group – A

1. Answer all questions : [8 x 1]
- (a) The file extension of shell script is _____.
 - (b) Hidden files in Unix always begins with a character _____.
 - (c) UNIX was developed by _____ and _____.
 - (d) mv command is used for _____.
 - (e) _____ command is used to know the users currently logged in.
 - (f) Password of the system can be changed by _____ command.
 - (g) The default value of umask is _____.
 - (h) _____ statement is used to jump out of a loop instantly in shell programming.

[P.T.O...]

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Group – B

2. Answer any 8 questions : [8 x 1.5]
- (a) What is the difference between yank and delete ?
 - (b) What is the use of grep command in Unix ?
 - (c) List the operators those are used for numerical comparison with test command.
 - (d) Mention the outcome of cd command when used without any argument.
 - (e) Specify the meta characters used in Unix.
 - (f) Write a command to locate all the C program files in unix.
 - (g) What is the use of touch command ?
 - (h) Which different types of shells are available in unix ?
 - (i) Write the long forms of the following commands.
grep wall motd nohup
 - (j) Write the syntax of 'for' loop in shell programming.

Group – C

3. Answer any 8 of the following : [8 x 2]
- (a) Write the use of case conditional structure in shell programming.
 - (b) What is the difference between the following vi commands ?
:w :q! :wq ZZ

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- (c) What would be the effect of the following commands ?
cat < file1 > file2
cat >> file2
- (d) Specify the difference between scheduling processes using batch command and using at command.
- (e) Mention the commands along with their usage to find out whether you have a write permission to a particular terminal or not.
- (f) What do the following Unix system variable signify ?
PS1 PS2 PATH HOME
- (g) What is the outcome of the following command ?
ls [aeiou]*
- (h) What is the meaning of . and .. in unix ?
- (i) Write the difference between compress and pack command.
- (j) If m has value 10 and m is reassigned with a statement m='expr \$m * 3', then what is the new value of m ?

Group – D

- Answer all questions : [4 x 6]
4. Briefly explain the features of Unix Operating System.

OR

Discuss the architecture of Unix Operating System.