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Roll No. : .....

**322555(22)**

**B. E. (Fifth Semester) Examination,  
April-May 2021**

**(New Scheme)**

**(CSE Branch)**

**UNIX & SHELL PROGRAMMING**

***Time Allowed : Three hours***

***Maximum Marks : 80***

***Minimum Pass Marks : 28***

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

**Unit-I**

1. (a) Define super block. 2
- (b) Give the syntax and details of following UNIX system. 7
  - (i) cp

[ 2 ]

- (ii) who
- (iii) cat
- (iv) sort
- (v) we
- (vi) head
- (vii) ls

- (c) What is Vi-editor? Explain various modes of Vi-editor with examples. 7
- (d) Differentiate between the following : 7
- (i) cmp and diff
  - (ii) head and tail

### Unit-II

2. (a) Define Shell. 2
- (b) Write a shell script to list all of the directory files in a directory. 7
- (c) Write short notes on :  $2 \times 3\frac{1}{2} = 7$
- (i) Alias
  - (ii) Filter commands

[ 3 ]

- (d) Explain command substitution. 7

### Unit-III

3. (a) Write any four built in variables of awk. 2
- (b) Why we use grep command? Write the syntax and explain with the help of three examples. 7
- (c) Write an awk script to count the no. of words and lines in a file. 7
- (d) Explain fed command with syntax and examples. 7

### Unit-IV

4. (a) Define eval command. 2
- (b) Explain various Korn shell features. 7
- (c) Write a shell script to direct whether a file is existing or not. 7
- (d) Write a shell script to reverse the digit of a given number. 7

### Unit-V

5. (a) Define Inode. 2

- (b) Explain various C shell features. 7
- (c) Write an algorithm for conversion of a path name to an inode. 7
- (d) Write short notes on : (any two)  $2 \times 3\frac{1}{2} = 7$ 
  - (i) Argument validation
  - (ii) Special parameters