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Roll No. :

333654(33)

B. E. (Sixth Semester) Examination, April-May 2020

(New Scheme)

(IT 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. Attempt any two parts from (b), (c) and (d). Which carry 7 marks each.

Unit-I

1. (a) Give an example and attributes of wc command. 2
- (b) Explain Unix operating system with their architecture and utility of this. 7

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- (c) What is Vi editor? Explain with their different mode and commands used in Vi editor. 7
- (d) Explain following commands with suitable examples : 7
- (i) echo
 - (ii) who
 - (iii) ls
 - (iv) cat
 - (v) rmdir
 - (vi) cp
 - (vii) head.

Unit-II

2. (a) Explain the term 'Pipe' 2
- (b) Explain different types of filters used in Unix. 7
- (c) What are the variables? Explain with their types and uses. 7
- (d) Write a shell script with their execution to find the fibonacci series of n^{th} number. 7

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Unit-III

3. (a) What is String? 2
- (b) Explain the GREP command with their attribute and uses. 7
- (c) What is SED? Explain with their various operation and application. 7
- (d) What is AWK command? Explain with their function body and execution steps with suitable example. 7

Unit-IV

4. (a) What is Eval? 2
- (b) What is kornshell? Explain with their various features and execution of kornshell script. 7
- (c) What do you understand by "changing positional parameter"? Explain with suitable example. 7
- (d) Write short notes on : 7
- (i) Two special file used in korn shell
 - (ii) Special parameter and variable

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Unit-V

5. (a) What is C shell? 2
- (b) What do you mean by 'INODE'? Write an algorithm for the conversion of pathname to an Inode? 7
- (c) Write short notes on : 7
- (i) Open and Close
- (ii) Read dir and close dir
- (d) What is file structure and also explain system call for file management system? 7