



HD-3574

Third Year B. C. A. (Sem. V) Examination

March / April - 2018

502 : UNIX & Shell Programming

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दस्तावेज में निम्नलिखित विवरणों के उत्तर देना आवश्यक है।
 Fillup strictly the details of signs on your answer book.

Seat No. :

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Name of the Examination :

Name of the Subject :

Subject Code No. :

3	5	7	4
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 Section No. (1, 2,.....) : Student's Signature

- (2) Figures on the right indicate marks.
- (3) Take assumptions whenever necessary.

1 Answer in short : (Any **Seven**) 14

- (1) What is write command?
- (2) Explain the purpose of super block.
- (3) What is the purpose of /etc/passwd directory of Unix file system?
- (4) Devise a pipeline sequence which lists three smallest files in the current working directory.
- (5) What is a daemon? List out them. Write a command to kill a daemon.
- (6) Explain-u,-n,-r options of sort.
- (7) Define redirection. List out the symbols used for redirection.
- (8) What is major and minor number?

2 Answer the following : (Any **Two**) 14

- (1) Explain features of Shell.
- (2) Explain the directory structure of UNIX.
- (3) Explain different types of files used in Unix file system.

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[Contd.....

- 3 (A) Which command is useful to change the file permission? Explain it giving by example. 6
(B) Write a shell script to validate the name of a person accepted through the keyboard so that it does not exceed 8 chars of length. 5

OR.

- (B) Write a shell script to check whether the given file is empty or not. 5
(C) Explain find command. 3

- 4 (A) Explain expr command giving example for string manipulation. 5

OR

- (A) Explain Insert, Append and Change command of sed. 5

- (B) Write commands for following : (Any Five) 5

- (1) To remove duplicate line from a file.
- (2) To count number of characters in last line of file xl.
- (3) Display files of current directory whose first character is not digit.
- (4) Remove a file forcibly which does not have write permission.
- (5) Count all occurrences of 'TYBCA' in stud.txt.
- (6) Replace 'kernel' with 'kernel architecture' using remember pattern of sed utility.

- (C) Explain following commands : (Any Two) 4

- (1) cut
- (2) paste
- (3) nice

- 5 (A) Perform following commands using sed : (Any Four) 4

- (1) Replace the word unix with UNIX in whole file.
- (2) Display lines 10 to 15 from files fl.txt.
- (3) To count number of words in line 10 to 20 of file fl.txt.
- (4) To add .5 in the marks field of student.tct file. (e.g. 30 should be replaced by 30.5)

- (5) Write a command to replace first occurrence of 'Delhi' with 'Mumbai' in each line of dept.lst.
- (B) Answer the following using awk : (Any Two) **6**
- (1) Print all user / login names available in /etc/passwd.
 - (2) Print the fields 2, 3, 4, and 6 from student.txt file which contains the pattern 'TYBCA'.
 - (3) Prints all lines containing string "for" in test.txt file.
- (C) Explain any two functions used in AWK with example. **4**