

RE-3772

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

March / April - 2017

502 : UNIX & Shell Programming

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दशांशिक निशानीवाणी विगतो उत्तरपदी पर अवश्य दपवी.  
Fillup strictly the details of signs on your answer book.

Name of the Examination :  
T. Y. B. C. A. (SEM. 5)

Name of the Subject :  
502 : UNIX & SHELL PROGRAMMING

Subject Code No. : 3 7 7 2 Section No. (1, 2,.....) Nil

Seat No. : 0 0 0 5 1 0

H.M.P  
Student's Signature

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

1 Answer in short : (Any Seven) 14

- (1) Which process is responsible for creating Getty process?
- (2) Explain the use of tee command
- (3) State the purpose of -n option with sed.
- (4) When do wild card characters lose their meaning?
- (5) How can you make out whether two files are copies or links?
- (6) Explain the three time stamps maintained in the i-node and how can we access them?
- (7) Define internal and external command in unix? Explain any two.
- (8) What is the use of kill command?

2 Answer the following : (Any two) - 14

- (1) Explain features of UNIX operating system
- (2) Explain device management in UNIX operating system.
- (3) Write detailed note on ls command with options and example.

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[Contd...

- (b) Write a shell script to print 1 to 20 nos in reverse and also calculate the sum of odd nos. 5

OR

- (b) Write a shell script to test the file is a executable file or not. 5

- (c) Explain at and batch commands. 3

- 4 (a) Write note on test command. 5

OR

- (a) Explain sort command with options and example. 5

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

(1) Display line starting from 10<sup>th</sup> line to the end of file X1.

(2) Display all files in current directory where the first character is numeric and the last character is not alphabetic.

(3) Display the contents of last modified file.

(4) To display contents of top 3 largest files in a working directory.

(5) To display all files of current directory whose 1<sup>st</sup> character is not digit.

(6) To display inode number of all files of current directory.

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

(1) ps

(2) umask

(3) tail

- 5 (a) Answer the following : (Any Two) 6

(1) Explain string comparison using expr command with example.

(2) Explain standard input, output and error files in UNIX.

(3) Explain sed command.

(Any Four)

- (1) Display all files which have read and write permission for the group.
- (2) Find out the number of the character '?' occur in a file fl.txt.
- (3) Count number of words in line 40 through 60 of file fl.txt.
- (4) To delete all vowels from the file xl.txt.
- (5) Replace the word unix with UNIX in between 5<sup>th</sup> to 10<sup>th</sup> line including both.

(c) Write a command using awk utility : (Any two) 4

- (1) Display those words whose length greater than 10 characters and consist of alphabet only.
- (2) Print odd numbers of words in each line
- (3) Count occurrences of pattern 'Operating System' in file f1.