



EO-3772

Third Year B. C. A. (Sem. V) Examination
October / November - 2016
502 : UNIX & Shell Programming

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दशांशवैव निशानोवाणी विगतो उत्तरवडी पर अवश्य खपवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="T. Y. B. C. A. (SEM. 5)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="502 : UNIX & SHELL PROGRAMMING"/>	<input type="text"/>
Subject Code No. : <input type="text" value="3"/> <input type="text" value="7"/> <input type="text" value="7"/> <input type="text" value="2"/>	Section No. (1, 2,.....) : <input type="text" value="Nil"/>
	Student's Signature

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

1 Answer in short : (any **seven**) 14

- (1) What does /etc/passwd contains ?
- (2) What is the function of mv command ?
- (3) Define Redirection. List out the symbols used for redirection.
- (4) What is the use of sleep command ?
- (5) When it is appropriate to schedule a process using at command ?
- (6) What is ppid ? Which command is used to access it ?
- (7) What is shell ? Write the functions of shell.
- (8) What is the difference between cat f1.txt and cat>f1.txt ?

2 Answer the following : (any **two**) 14

- (1) Explain features of Kernel.
- (2) Explain booting process and importance of in it process.
- (3) Explain the modes of vi editor.

EO-3772]

1

[Contd...

- 3 (a) Explain command line interpretation of the shell. 6
(b) Write a shell script to enter the records in a file from keyboard and display the file. Make proper validation. 5

OR

- (b) Write a shell script to test the length of string is zero or not. 5
(c) Explain break and continue statement with example. 3

- 4 (a) Write note on grep utility. 5

OR

- (a) Explain find command with options and examples. 5
(b) Write commands for following : (any five) 5
(1) To display number of processes.
(2) To concatenate two files f1 and f2 including some text to be inserted from keyboard after content of f1.
(3) To display all files having last character as digit.
(4) Remove directory tree dir/dir2/dir3 using single command.
(5) Write a command to display system processes.
(6) Assign value of 10th positional parameter to a variable x.

- (c) Explain following commands : (any two) 4
(1) cut
(2) pr
(3) tr.

- 5 (a) Answer the following : (any two) 6
(1) Explain file comparison using test command with example.
(2) Explain escape and quote mechanism with an example.
(3) Explain links in unix.

- (b) Perform following commands using grep or sed : 4
(any four)
- (1) Display line 10 to 15 from file X1.
 - (2) Display line before a line that contains pattern xyz in f1.txt.
 - (3) To display those lines in between 25 and 50 having pattern 'unix' in it.
 - (4) Display the lines which are not starting with 2 at the beginning.
 - (5) To remove all leading space from a file f1.
- (c) Write a command using awk utility : (any two) 4
- (1) Display those words whose length are 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.