



BE-3574

Third Year B. C. A. (Sem. V) Examination
October/November – 2017
502 : UNIX & Shell Programming

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दशावेक निशानीवाणी विगतो उत्तरवडी पर अवश्य लभवी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
THIRD YEAR B. C. A. (SEM. 5)

Name of the Subject :
502 : UNIX & SHELL PROGRAMMING

Subject Code No. : **3 5 7 4** Section No. (1, 2,.....) : **NIL**

Seat No. :

--	--	--	--	--	--	--	--

Student's Signature

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

1 Answer in short : (any seven)

14

- (1) What are the importance of /bin directory?
- (2) Where the number of free i-nodes and data block stored?
- (3) What happens when cd command is run without arguments?
- (4) What is the function of mv command?
- (5) What is sticky bit?
- (6) What is command substitution?
- (7) Which command of vi editor is used to display line number before each line?
- (8) Differentiate between files copies and file links.

2 Answer the following : (any two)

14

- (1) Explain the features of Unix OS.
- (2) Explain booting sequence with init process.
- (3) Explain content of I-node table.

BE-3574]

1

[Contd.....

- 3 (a) Explain command line interpretation of the shell. 6
(b) Write a script to enter records in a studlist.txt file. 5
The fields are Rollno, Name and Marks.

OR

- (b) Write a shell script to check whether entered file exists or not. 5
(c) Explain ls command with its options. 3

- 4 (a) Explain chmod command using relative and absolute method. 5

OR

- (a) Write note on grep utility. 5
(b) Write commands for following : (any five) 5

- (1) To delete all special characters from the files f1.txt.
(2) Write a command to print first ten line of file.
(3) Write a command to sort a line of file and also remove a repeated line.
(4) Replaces all occurrences of 'SYBCA' with 'TYBCA' in 5th line of file f1.txt.
(5) To run a utility x1 at 11:00 AM.
(6) To display number of processes.

- (c) Explain following commands : (any two) 4
(i) mv
(ii) bc
(iii) tr

- 5 (a) Answer the following : (any two) 6
(1) Explain for loop with an example.
(2) Give the significance of special parameters used by shell.
(3) Explain pattern-matching features of grep utility.

(b) Perform following commands on file `student.txt` : 4

(any four)

(1) Write a command to find the word `Unix OS` ignoring case.

(2) Write a command to display occurrence of string `BCA`.

(3) Write a command to display line which start with `1`.

(4) Write a command to print last six lines of file.

(5) Write a command to display line which end with `India`.

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

(1) Print even numbers of words in each line

(2) Count occurrences of pattern `Operating System` in file fl.

(3) Display those words whose length greater than 4 characters and consist of digits only.