P-3772
Third Year B. C. A. (Sem. V) Examination
March/April – 2014
502 : Unix & Shell Programming

Time : **3** Hours]   [Total Marks : **70**

Instructions :

(1)

नीचे दर्शावेल 👈 निशानीवाळी विगतो उत्तरवही पर अवश्य लखवी. Fillup strictly the details of 👈 signs on your answer book.	Seal No. :
Name of the Examination :	
👈 Third Year B. C. A. (Sem. 5)	
Name of the Subject :	
👈 502 : Unix & Shell Programming	Student's Signature
👈Subject Code No. : 3 7 7 2 👈Section No. (1, 2,.....) NIL	

(2) Figures on the right indicate marks.

(3) Take assumption whenever necessary.

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

    (1) What is major and minor number ?

    (2) Where the number of free i-nodes and data block stored ?

    (3) List out functions of kernel.

    (4) Which process is created by Getty process ?

    (5) What happens when cd command is run without arguments ?

    (6) Explain the use of tee command.

    (7) Explain the purpose of super block.

    (8) What is the function of mv command ?

2 Answer the following : (any two)   14

    (1) Explain booting sequence with init process.

    (2) Explain features of Shell.

    (3) Explain content of I-node block.

P-3772]   1   [Contd...

3 (a) Explain command line interpretation of the shell. 6

(b) Write a shell script to validate the name of a person 5
accepted through the keyboard so that it does not exceed
10 chars of length.

OR

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

(c) Explain at and batch commands. 3

4 (a) Explain commands for changing file permissions 5
and ownership.

OR

(a) Explain expr command giving example for 5
string manipulation.

(b) Write commands for following : (any five) : 5

(1) Write a command to print first seven line of file.

(2) Write a command to sort a line of file and also
remove a repeated line.

(3) Replaces all occurrences of `SYBCA' with 'TYBCA'
in 5th line of file fl.

(4) Count all occurrences of 'TYBCA' in studlst.

(5) Replace 'kernel' with 'kernel architecture' using
remember pattern of sed utility.

(6) To run a utility x1 at 9:00 AM.

(c) Explain following commands : (any two)

(i) shift

(ii) be

(iii) ls

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 'studlst' : (any four) 4

    (1) Write a command to locate the 'Unix' ignoring case.

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

    (3) Write a command to display line which start with 'The'.

    (4) Write a command to display line which end with 'India'.

    (5) Write a command to print first six line of file.

(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 10 characters and consist of alphabet only.

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