



R-1902

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

March / April – 2007

Paper - 502 : Unix & Shell Programming

Time : 3 Hours]

[Total Marks : 70

Instruction :

नीचे दशादिद निशानीवाणी विगनो उत्तरवडी पर अवश्य लपवी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
B.C.A. (Sem. V)

Name of the Subject :
Paper - 502 : Unix & Shell Programming

Subject Code No. : 1 9 0 2 Section No. (1, 2,.....) : NIL

Seat No. _____

Student's Signature _____

- 1 Answer the following questions in brief : (any seven) 14
- (1) Explain characteristic of Unix file system.
 - (2) What do you mean by a daemon ? List out them.
How will you kill a daemon ?
 - (3) Explain here document.
 - (4) Explain the concept of sticky bit.
 - (5) Explain the use of the tee command.
 - (6) State the use of the shell variables PS1 and PS2.
 - (7) What is a job ? Show how you can move a job from the background to the foreground, and a vice versa.
 - (8) List out functions of kernel.
- 2 (a) Attempt any two : 10
- (1) Write a script that merges two files alternatively in reverse (i.e. last lines of two files, second last line of two files, so on).
 - (2) Write a user-defined function using awk utility to simulate left () of basic.
 - (3) Write a script that removes only empty files from current directory.

4

- 4 (a) Attempt any **three** : 12
- (1) Explain the components of a Unix file system.
 - (2) Explain the disadvantages of vi editor.
 - (3) Explain case structure in Unix.
 - (4) Explain any two- communication command.
 - (5) Write a note on conditional parameter substitution.
- (b) Explain the purpose of the following files/directories 2
- (1) /lost+found
 - (2) /bin.

10

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- 5 (a) Do as directed : (any **eight**) 8
- (1) Write sed command which add two spaces to the begging of each line and two dashes to the end of each line.
 - (2) Write an awk command that display all lines having 2nd and 3rd characters same.
 - (3) Differentiate between system variable NR and FNR of awk utility.
 - (4) What does the following command do ?
Sed 's/echo/ECHO/gw out' x1>x2
 - (5) Write a command to append blank line after each line in a file except last line.
 - (6) Write a grep command which print all lines except the comment line of shell script.
 - (7) Write a grep command that display all files which have read and write permission for the group.
 - (8) List out some additional special characters used by **egrep** but not by **grep**.
 - (9) Write a sed command to replace 'unix os' on lines 5th to 10th.
 - (10) Interpret following command :
grep "^[^^]" file1
- (b) Answer the following questions : (any **three**) 6
- (1) Explain remembered pattern of sed utility.
 - (2) Explain significance of system variable used with awk utility.
 - (3) Explain concept of array in awk utility.
 - (4) Explain **egrep** with an example that uses some special characters not used by **grep**.