BB-1882

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

October / November – 2010

Unix & Shell Programming : Paper - 502

Time : 3 Hours] [Total Marks : 70

Instructions :

(1)

નીચે દર્શાવેલ ☛ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
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 :

☛ UNIX & SHELL PROGRAMMING - 502

☛ Subject Code No. : 1 8 8 2 ☛ Section No. (1, 2,....) : NIL

Seat No. :

Student's Signature

(2) Figures on the right indicate marks.

(3) Take assumption whenever necessary.

1 Answer the following questions (Any 14): 14

(1) What is job? How can you move a job from the background to the foreground and vice versa?

(2) Give significance of the 'tee' command.

(3) Differentiate between $@ and $*.

(4) Write a command to kill the last background job?

(5) What is the use of 'grep' command.

(6) What do you mean by pipe? Give example.

(7) Which are the functions of kernal?

(8) Why 'file' command is used?

(9) Explain super block in brief.

(10) Define process. Which process has PID 1?

(11) What is the significance of 'wait' and 'sleep' command?

(12) Why the –r option of 'rm' command, is dangerous?

(13) What is the use of 'touch' command?

(14) Which file is parent of all files?

(15) What does /etc directory contain?

(16) What is the use of 'ps' command?

2 (a) Write a short note on features of Unix operating system. 6

(b) Explain for loop with example. 4

(c) Explain online communication command. 4

OR

2 (a) Explain pattern patching feature of grep utility. 4

(b) Explain following (any three) 6

(1) nice (2) at (3) touch (4) write (5) eval

(c) Explain in brief : I-node block 4

3 (a) Write a script to perform the following mathematical operation on two inputted numbers : 5
(1) Addition (2) Subtraction (3) Multiplication (4) Division
Note:- Numbers may be integer or float

(b) Write a script that receive strings and check both are same or different, also check the length of both strings are greater than 0. 5

(c) Explain redirection using example. 4

OR

3 (a) Write a script to enter 5 subjects mark from command line and display percentage and appropriate class. 5

(b) Write a script to check entered character is uppercase, lowercase, numeric digit or special character. 5

(c) Explain sort command with its any three options. Give example of each. 4

4 (a) Answer the following : (Any two) 8
1. Explain chmod with changing relative file permission and absolute file permission.
2. Explain cmp, comm and diff using example.
3. Discuss compression and archiving in files.

4 (b) Answer the following : (Any six) 6
1. What is significant of batch command?
2. Write a vi editor command to go to line number 40.
3. Write a vi editor command to copy 10 lines.
4. Explain command mv * ../bin
5. Explain cp[!a-z A-Z]* progs.
6. Discuss the significance of 'expr' and 'echo'.
7. Explain significant of 'tty'.
8. what is output of head –n 5 f1 and tail +5 f1 command.

5 (a) Write a command for the following : (Any eight) 8
1. To delete every ; at end of file in file f1.
2. To display all lines, not containing 'printf' in file f1.
3. To print first three columns and first two rows of file f1.
4. To display lines by replacing 'echo' with 'printf' in file f1.
5. To print line number of all lines begins with 'T' in file f1.
6. To delete all lines begins with 'T' in file f1.
7. To display all lines but not the last line of file f1.
8. To extract first word of each line of file f1.
9. To replace 'the' with 'he' and 'bad' with 'good' in file f1.
10. To display all lines that contains pattern g* in a line.

5 (b) Answer the following : (Any six) 6
1. Explain remembered pattern of sed utility.
2. Explain matching operators of awk utility.
3. Differentiate between system variable of awk, FNR, NR.
4. Explain array in awk utility.