



DG-3772
Third Year B. C. A. (Sem. V) Examination
March/April – 2016
502 : Unix & Shell Programming

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

<p>નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination :</p> <p>Third Year B. C. A. (Sem. 5)</p> <p>Name of the Subject :</p> <p>502 : Unix & Shell Programming</p> <p>Subject Code No. : 3 7 7 2 Section No. {1, 2,.....}: NIL</p>	<p>Seat No. :</p> <table border="1" style="width: 100%; height: 20px;"><tr><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td></tr></table> <div style="border: 1px solid black; border-radius: 15px; width: 100%; height: 60px; margin-top: 10px; display: flex; align-items: center; justify-content: center;"><p>Student's Signature</p></div>						

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

Q-1 Answer in short (Any seven) (14)

1. List out functions of kernel.
2. Explain -u,-n,-r options of sort.
3. Define redirection. List out the symbols used for redirection.
4. Differentiate between \$@ and \$*.
5. When do wild card characters lose their meaning?
6. List default file as well as directory permission when making has been set by the command as umask 333.
7. Where the number of free i-nodes and data block stored?
8. What do you mean by sticky bit?

Q-2 Answer the following: (Any two) (14)

1. Explain the directory structure of UNIX.
2. Features of Unix OS.
3. Explain features of Shell.

Q-3

- (a) Which command is useful to change the file permission? Explain it giving by example. (6)
- (b) Write a shell script to list, copy & rename file using select case. (5)
- OR
- (b) Write a shell script to check whether entered file exists or not. (5)
- (c) Explain at and batch command. (3)

Q-4

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

OR

(a) Explain Insert, Append and Change command of sed. (5)

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

1. To remove duplicate lines from file x1.
2. Count number of character in first three lines of file x1.
3. Display files of current directory whose first character is not digit.
4. Remove a file forcibly which do not have write permission.
5. To delete all special characters from the files x1.
6. To display number of processes.

(c) Explain following commands: (Any two) (4)

1. expr
2. kill
3. umask

Q-5

(a) Explain Hash arrays with example. (4)

(b) Answer the following using awk : (Any two) (6)

1. Print all user / login names available in /etc/passwd.
2. Print the fields 2, 3, 4, and 6 from test.txt file which contains the pattern 'comp'.
3. Prints all lines containing string "for" in test.txt file.

(c) Explain ps command with example. (4)
