



RAN-3574

TYBCA(SEM-V) Examination

March / April - 2019

TYBCA SEM-V Paper 502 UNIX and Shell Programming

Time: 3 Hours]

[Total Marks: 70

સૂચના : / Instructions

(1)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.

Fill up strictly the details of signs on your answer book

Name of the Examination:

TYBCA(SEM-V)

Name of the Subject :

UNIX and Shell Programming

Subject Code No.:

3

5

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Seat No.:

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Student's Signature

(2) Figure 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. Which process is created by Getty process?
3. How can you make out whether two files are copies or links?
4. What is the purpose of write command?
5. Differentiate between \$@ and \$*.
6. What does it mean by zombie state of a process?
7. What is the purpose of ^ in regular expression?
8. List at least two popular shells including their default prompt.

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

1. Features of Unix OS.
2. List the characteristics of Unix file system.
3. Explain booting sequence with init process.

Q-3

- (a) Discuss Relative and Absolute File Access Permissions with example. (6)
- (b) Write a script to perform mathematical operations using menu. (5)

OR

- (b) Write a shell script to test the file is a executable file or not. (5)
- (c) Explain find command. (3)

Q-4

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

OR

- (a) Explain expr command giving example for string manipulation. (5)
- (b) Write commands for following (Any five) : (5)

1. Write a command to print first three line of file emp.txt.
2. Write a command to sort a line of file emp.txt and also remove a repeated line.
3. Display string in upper case of the file emp.txt.
4. To run a utility pr 1 at 11:00 AM.
5. To display number of processes of the user TYBCA10.
6. Replace 'kernel' with 'unix kernel' using remembered pattern of sed utility.

- (c) Explain following commands: (Any two) (4)
 - i) mv
 - ii) bc
 - iii) expr

Q-5(a) Answer the following: (Any two) (6)

1. Explain while and do-while loop with examples.
2. Explain special parameters used by shell.
3. Explain pattern-matching features of grep utility.

(b) Answer the following using awk : (Any two) (4)

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 at and batch command with example. (4)
