



- 3 (a) Write a shell script to check whether entered number is palindrome or not. 5
- (b) Write a short note on sort command. 5
- (c) Write a detail note on diff and comm. 4

**OR**

- (c) Write a short note on chown and chgrp. 4
- 4 (a) Explain following commands : (any two) 4
- (1) touch
- (2) ps
- (3) uniq
- (b) Answer the following : (any one) 5
- (1) Explain case condition with example in shell.
- (2) Remembered pattern and Repeated pattern.
- (c) Write any five commands : 5
- (1) To print first three line of file Tybca.
- (2) To sort file by last access time.
- (3) To print field 1 and 6 from file Tybca.
- (4) To print unique line of file Tybca.
- (5) To print frequency of each line from file Tybca.
- (6) To find file having size greater than five.
- (7) To find a file having which have .c extention.
- 5 (a) Perform following commands on file dept.lst. : 7
- (any seven)
- (1) Write a command to print lines which contain TYBCA.
- (2) Write a command to print lines which not contain TYBCA.
- (3) Write a command to print line 6 to 12.

- (4) Write a command to replace first occurrence of Surat with Vyara in each line.
- (5) Write a command to print content of file after deleting every ; .
- (6) Write a command to sort on 3 column to 5 column.
- (7) Write a command to convert small alphabets to capital alphabets.
- (8) Write a command to print lines with line number which contain "Marketing".

(b) Mechanism of process creation. 4

**OR**

(b) Explain pr and tr filters. 4

(c) Explain system variable in awk. 3

**OR**

(c) Explain array in awk. 3

---