```
July-2024
Q-5 (A) Write a command for any six. [6]
1. Display last line of file f1.
Tail -1 f1
Sed -n '$p' data
1. Replace all occurrences of 'he' with 'she' and 'his' with 'her' in file f1.
sed -e 's/he/she/' -e 's/his/her/' f1
1. Display only the count of duplicate words in file f1.
Sort f1 | uniq –dc (d to print only duplicate words, c to count)
1. Convert file content of f1 to upper case.
tr
1
'[:lower:]' '[:upper:]' < f1
awk '{ print toupper($0) }' input.txt
1. Display files of current directory that contains 'unix' in it.
Grep –I "unix" ./* (-I to list file names only)
1. Insert blank lines after each line in file f1 except last line.
Sed 'a\
>
' f1
1. Display length of longest line of file f1.
wc -L f1 (-L for max line length)
1. Convert decimal number 1234 into hexadecimal.
echo
2
"ibase=10;obase=16;1234" | bc
(B) Write commands using AWK utility. (Any three) [6]
1. Display longest word in each line of file f1.
l="";
for(i=1; i \le NF; i++)
if(length($i) > length(l))
l=$i;
}
print I
2. Display number of words in each line of file f1 without using NF.
count=0;
for (i = 1; i \le length(\$0); i++)
if (substr($0, i, 1) ~ /[[:space:]]/)
count++;
print count+1;
3.
```

```
Display lines of file f1 which consists of only alphabets.
awk '/^[a-zA-Z]*$/' filename.txt
4. Display lines 5 to 10 of file f1 that do not contain 'unix'.
awk 'NR >= 5 && NR <= 10 && !/unix/' f1
5. Display each line of file f1 in reverse.
line = $0;
I = length(line);
rev = "";
for (i=l;i>0;i--)
rev=rev substr(line, i, 1);
print rev;
March-2024
Q-5 (A) Answer following using grep or sed
4
utility (any six). [6]
1. Display lines of file f1 that begin with 'The'.
Grep "^The" f1
Sed -n '/^The/p' f1
1. Count total number of blank lines of file f1.
Grep -c "^$" f1
sed -n '/^$/p' filename.txt | wc -l
1. Display the lines of file f1 that do not contain "Unix".
Grep -v "Unix" f1
Sed '/Unix/d' f1
1. Replace all occurrences of "unix" with "linux" of file f1.
Sed 's/unix/linux/' f1
1. Display
the lines of file f1 that contain "VB.net" and/or "Asp.net".
Grep -e "VB.net" -e "Asp.net" f1
1. Display lines of file f1 which have exactly 4 chars.
grep "^[a-Z]\{4\}$" f1
grep "^....$" f1
sed -n '/^....$/p' f1
1. Does not display line number 3 to 5 of file f1.
Sed '3,5d' f1
1. Insert blank line after each line of file f1.
Sed 'a\
' f1
```

```
(B) Write commands using AWK utility. (Any three) [6]
Display those words of file f1 whose length are greater than 5 chars and consist of only alphabets.
for (i = 1; i \le NF; i++)
if (length(\$i) > 5 \&\& \$i \sim /^[a-zA-Z]+\$/) {
print $i
2. Display even numbers of words in each line of file f1.
Awk 'NF%2==0' f1
3. Count occurrences of pattern "unix" in file f1.
for (i = 1; i \le NF; i++) {
if (\$i == "unix") {
C++;
} END {print c}
4. Count
7
number of vowels in file f1.
for (i = 1; i \le length(\$0); i++) \{
char = tolower(substr($0, i, 1))
if (char ~ /[aeiou]/) {
count++
END {
print count
5. Display all palindrome words in file f1.
for (i = 1; i \le NF; i++) {
word = $i
rev = ""
for (j = length(word); j > 0; j--) {
rev = rev substr(word, j, 1)
if (word == rev) {
```

```
print word
November-2023
Q-4 (A) Write unix commands for
8
following (Any 7) [7]
1. To count number of words from line 10 to 20 of file test.txt.
Sed -n '10,20p' test.txt | wc -w
1. Display the lines which are not starting with 2 at the beginning.
Grep -v "^2" test.txt
Sed '/^2/d' test.txt
1. Display lines of file f1 having 1
and last same characters.
awk 'substr($0, 1, 1) == substr($0, length($0), 1)' filename.txt
1. Remove repeated lines from file
9
test.txt
sort test.txt | uniq
1. Append dashed line after each line of file test.txt
sed 'a\
' test.txt
1. Replace all occurrences of "SYBCA" with "TYBCA" on lines 5 to 10 of file f1.
sed '5,10s/SYBCA/TYBCA/' f1
1. To delete all special characters from file test.txt
sed 's/[^a-zA-Z0-9]//g' test.txt
1. To run a utility Pr1 at 11:00 am
at 11:00 am Pr1
1. Display
10
file names from current directory whose name start with an alphabet and ends with digit.
Is | grep '^[a-zA-Z].*[0-9]$'
Q-5 (B) Write commands using AWK utility. (Any four) [4]
1. Print even numbers of words in each line of file test.txt
for (i = 1; i \le NF; i++) {
if (i \% 2 == 0) {
printf "%s ", $i
```

```
1. Display words whose length is greater than 6 characters and consists of only
11
alphabets.
for (i = 1; i \le NF; i++) {
if (length(\$i) > 6 \&\& \$i \sim /^[a-zA-Z]+\$/) {
print $i
1. Print lines 6 to 12 from file text.txt
awk 'NR >= 6 && NR <= 12' text.txt
1. Count all occurrences of pattern "TYBCA" in file test.txt
awk '/nana/ {count++} END{print count}' f1 (1
occurrence only)
OR
for (i = 1; i \le NF; i++) {
if ($i == "TYBCA")
count++;
} END {print count}
1. Display
12
lines of file f1 in uppercase
awk '{ print toupper($0) }' f1
1. Display lines of file f1 in reverse
line = $0
rev = ""
for (i = length(line); i > 0; i--) {
rev = rev substr(line, i, 1)
print rev
13
```

print ""