

MCS172 – Unix Operating System

13/10/2020

(CAT1)CONTINUOUS ASSESMENT TEST – 1

CIA LAB TEST1

Evaluation Criteria: Total Marks 25

- Execution (10X 2) = 20 Marks
- Viva (5) = 5 Marks

1. Write a menu based Shell Script to demonstrate the following questions (minimum two questions be completed) using case... esac. (10 Marks)

a) To check the given string is palindrome or not without using inbuilt function.

b) Write a shell script to extract characters, numeric values from the given file and store it as a separate file.

Note: Create a file manually which should contain the combinations of characters, numeric values and special characters

c) Write a shell script to remove all the lines with beginning of the word "unix" and ending of word "process".

Note: Try to create a text file which contains the starting word as "unix" and ending word as "process" with minimum of 3 lines/statements in the text file.

d) Write a shell script to perform the following computation.

$$Y=1/1! + 3/3! + 5/5! + 7/7! + \dots + n/n!$$

2. Write a menu based C program to implement the following criteria.(10 Marks)

a) To implement I/O system calls for creating a file "file1.txt" with 100 bytes of data. Read the first 50 bytes from the "file1.txt" file and write

it on the terminal and then read the last 50 bytes from the "file1.txt" file and write it to the new file "file2.txt".

c) Unlink the file descriptor at the end after completing the I/O operations using system calls.

