

COMPILER LAB TEST

Max. Marks: 20

Date: 29/11/2021

Time: 1:30 – 4:30 PM

Q.1) Write a LEX program which takes your roll number as input and convert it into: (i) octal if it is odd, (ii) hexadecimal if it is even.

Q.2) Given a text file, write a LEX program to search an input word in the file. Every time you encounter the input word then check:

a) If the first letter is a consonant, move it to the end of the word and then add your name to it.

b) If the first letter is a vowel, then just add your name to the end of the word.

All non-letters are copied intact to the output.

Q.3) Given a CFG, write a program in C to implement a top-down parser with back tracking. Check whether the string “cad” and “cabd” is accepted or rejected.

$S \rightarrow cAd$

$A \rightarrow a/ ab$