TONTADARYA COLLEGE OF ENGINEERING

(Department of Computer Science)

Internal Assessment – 2 (18CS61)

Subject   : SS & CD
Semester   : 6

Date   : 14-06-2022
Time   : 9.30 to 11.00

Answer following questions choosing one question from each part   Total Marks: 50

PART-A

				CO
Q1	a)	Explain the structure of LEX.	13M	(CO3)
	b)	Write the Lex program to count the number of words, number of characters, number of lines from the input file.	12M	(CO3)

OR

Q2	a)	Explain the following functions. i)yylex ii)yywrap() iii)yyparse iv)yytext v)atoi vi)yylval vii)yyerror	13M	(CO3)
	b)	Write a Yacc program to design a simple calculator.	12M	(CO3)

PART-B

				CO
Q3	a)	With the help of a diagram, explain the various phases of compiler.	13M	(CO2)
	b)	Explain input buffering strategy used in lexical analysis phase.	12 M	(CO2)

OR

Q4	a)	Define token, pattern and lexeme. Explain the role of lexical analyzer with block diagram.	13 M	(CO2)
	b)	Write the transition diagram for the following: i)relop ii)identifiers.	12M	(CO2)

Course Outcome	Complete Title
CO2	Design and develop lexical analyzers, parsers and code generators
CO3	Utilize lex and yacc tools for implementing different concepts of system software