

Faculty Department: CSE Academic Year:2024-2025

B.E/B.Tech: B.E Specialization:N/A Student Department: CSE

Semester: VI Assignment:II Sub. Code &Name: CS22604-

Compiler Design

Submission
Date:03/04/25
Max. Marks:50

Q.No	Question / Task / Activity	CO*	RBT Level [#]	Marks
1	Show the following grammar : S→AaAb BbBa	1	4	10
	$A \rightarrow \in$ B→€, is LL(1) and Parse the string "ba".			
2	Perform Shift reduce parser for the following: (i).S \rightarrow (L) a L \rightarrow L,S S and the input string is "(a,(a,a)) (ii). S \rightarrow S+S S \rightarrow S-S S \rightarrow (S) S \rightarrow a and the string is "a1-(a2+a3)"	1	4	15
3	Consider the following grammar: S-> Aa bAc Bc bBa A-> d B-> d Compute the closure function and goto() function and parse the string "bdc"	1	3	10
4	Construct the recursive descent parser for the following grammar? E-> E+T/T T-> T*F/F F-> (E)/id	1	3	15
Total Marks				50