School of Computing Science and Engineering B.Tech CSE

ETE - Jun 2023

Time: 3 Hours Marks: 50

Sem VI - BTCS3602 - Compiler Design

Your answer should be specific to the question asked Draw neat labeled diagrams wherever necessary

1. 2.	Analyze Augmented Grammar with an example. How many tokens in the following statement. main() {	K4 CO2 (2) K1 CO1 (2)
	int x==10, y<=10; printf("%d%d%d Correct answer is",x); }	
3.	Explain the concept of left recursion and left factoring.	K3 CO3 (2)
4.	List out the phases of a compiler.	K2 CO2 (2)
5.	Define LR(0) items in bottom up parsing?	K4 CO3 (2)
6.	Examine shift reduse parsing with appropriate example	K6 CO3 (6)
7.	Analyze various types of top down parsing?	K4 CO2 (5)
8.	Solve First and Follow for the following grammar. S> aABb A> c ϵ B> d ϵ	K3 CO2 (5)
9.	Analyze LALR parsing table for the following grammar E> BB B> cB id	K4 CO3 (8)
10.	Consider the grammar E->E + E E *E (E) id. Show the sequence of moves made by the shift-reduce parser on the input id1+id2*id3 and determine whether the given string is accepted by the parser or not.	K5 CO2 (8)
11.	Build following assignment statement into three address code D:=(a-b)*(a-c)+(a-c)	K5 CO3 (8)