Reg. No.: 22BAZ1266

Name :



## Continuous Assessment Test-I – January 2025

Programn	ne: B.Tech (CSE and its Specialization)	Semester	: Winter 2024-25
Course	: Compiler Design	Code	: BCSE307L
		Slot(s)	: B1+TB1
Faculty	: Dr.D JEYA MALA Dr.SHIVANI GUPTA Dr.MANJU G Dr.SURESHKUMAR WI Dr.SENTHIL PRAKASH P N Dr.MERCY RAJASELVI BEAULAH P Dr.ANAND M	Class Nbr(s)	: CH2024250501805 CH2024250501806 CH2024250501807 CH2024250502336 CH2024250502338 CH2024250502763 CH2024250502764
Time	: 1½ Hours	Max. Marks	: 50

## Answer ALL Questions

v every phase of the compiler for the expression	[10]
esenting a number 123.45 e-2 (3 marks)	
b)*(b c)*(b+c)*abb to NFA using Thompson's	[15]
b)*(b c)*(a+b) to DFA using direct method. (10 marks)	
g table for the below grammar (10 marks) bterm   bterm	[15]
bfactor   bfactor	
tor   (bexpr)   true   false true and not (false or true) \$ using the constructed	
e the Non-terminals and (, ), or, and, not ,true and false	
parse the expression id – (id + id) ^ id using Operator te steps.	[10]
$E \rightarrow EAE \mid (E) \mid -E \mid id$ $A \rightarrow + \mid x \mid - \mid / \mid ^{\wedge}$	