

Programme	B.Tech	Semester	Fall Semester 2024- 25
Course	BCSE307L - Compiter Design	Slot(s):	D1+TD1
Course Faculty	Dr. P. Mercy Rajaselvi Dr. Leninisha Shanmugam	Class Nbr	CH2024250102280 CH2024250102282
Time	1.30 Hours	Max Marks	50

General Instructions: Write only your registration number on the question paper in the box provided and do not write other information

1	Answer ALL Questions = 50 Marks  Demonstrate the different stages involved in the process of compilation (5marks) and display the results generated by each stage for the given input: a =((b+c)*(b+c)*2) / a+c (5marks)  Where a, b, c are real numbers	10		
2	a. Consider the following regular expression R (a d*) (b c)*da*(b c) Construct a deterministic finite automaton using direct conversion method. Find nullable(), firstpos() lastpos() and followpos()  b. Construct €-NFA for the regular expression by using Thompson's algorithm ((a+b)*+abb) + (ab*+a*b)  (5 marks)			
3	((11.0) 11.0)			
4	Construct operator precedence for the following grammar:  S   b     T   T    T   T   T   T   T   T   T	10		

Faculty signature: