BRAC UNIVERSITY Department of Computer Science and Engineering

Examination: Midterm

Duration: 80 minutes

Semester: Summer 2024

Full Marks: 40

CSE 420: Compiler Design

Figures in the right margin indicate marks.

Answer all the questions

<u>COs</u>	Questions	<u>Marks</u>
CO2	 Construct the DFA from the following RE using <u>Direct Method</u> (a ε) (a b c) (b c)* 	15
CO3	 2. Consider the following SLR Grammar. Draw LR(0) automaton and construct SLR parse table 1. T → B C 2. B → int 3. B → float 4. C → ε 5. C → [num] C 	10
CO3	3. Consider the <u>SLR parse table</u> from <u>Question 2</u> . Show the parsing simulation using <u>stack</u> for the input string, <i>int [num][num][num]</i>	10
CO1	4. Explain the interaction between <u>Lexical analyzer</u> and <u>Parser</u>	5