BRAC UNIVERSITY
Department of Computer Science and Engineering

Examination: Midterm
Duration: 80 minutes

Set - B

Semester: Summer 2024
Full Marks: 40

CSE 420: Compiler Design

Figures in the right margin indicate marks.

Answer all the questions

COs	Questions	Marks
CO2	1. Construct the DFA from the following RE using **Direct Method** (x | ε) (x* | y | z* | ε)* (y | z)*	15
CO3	2. Consider the following *SLR Grammar*. Draw **LR(0) automaton** and construct **SLR parse table** 1. $V \rightarrow P\ Q$ 2. $P \rightarrow$ ***int*** 3. $P \rightarrow$ ***float*** 4. $Q \rightarrow \varepsilon$ 5. $Q \rightarrow$ [**size]** Q	10
CO3	3. Consider the **SLR parse table** from **Question 2**. Show the parsing simulation using **stack** for the input string, ***float [size][size][size]***	10
CO1	4. Explain the **Errors** in compiler	5