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|  | **BAHRIA UNIVERSITY,**  **(Lahore Campus)**  *Department of Computer Science*  **QUIZ# 02– Spring 2024** |

COURSE TITLE: **Compiler Construction**  COURSE CODE: **CSC-323**

Class: **BSCS- 5A** Shift: **Morning**

CLO#: **1 & 2**

Course Instructor: Dr. Hajra Masood

Time Allowed: **30 minutes**

Date: **29th May 2024**

Max. Marks: **2.5 Points** Marks Obtained:

**Name: Reg No:**

**Question 1:**

Design a deterministic finite automaton (DFA) for the language described by the regular expressions. Provide the state diagram and the transition table for the DFA.

1. **(a∣b) ∗abb**
2. **(a∣b)c**
3. **((a∣b)∗ab)\***
4. **(a∣b)∗aba(a∣b)∗**
5. **(a∣b)∗c(ab)+**

**(0.5 mark each)**