**BRAC University**

**Dept. of Computer Science and Engineering**

**Summer 2024**

**CSE331-06**

**QUIZ - 1(B)**

**Time: 25 minutes Marks: 20**

Name: ID: Section:

1. Construct DFAs that recognize the following languages.
   1. L = { w ∈ {0,1}\* : w contains “0101” as a substring} 6
   2. L = { w ∈ {a,b}\* : w starts with at least two “b’s” } 6
   3. L = { w ∈ {0,1}\* : the count of 1’s that follow the last 0 is multiple of three} 4
   4. L = { w ∈ {a,b}\* : every 4th symbol in w is “a”} 4