**BRAC University**

**Dept. of Computer Science and Engineering**

**Fall 2024**

**CSE331-11**

**QUIZ - 1(A)**

**Time: 25 minutes Marks: 20**

Name: ID: Section:

1. Construct DFAs that recognize the following languages.
   1. L = { w ∈ {a,b}\* : w ends with *n* number of a’s, where *n* is a multiple of three} 4
   2. L = { w ∈ {0,1}\* : the count of 0 in w is one less than the multiple of 4} 6
2. Give regular expressions for the following languages.
   1. L = { w ∈ {0,1}\* : w contains exactly two ‘01’s as a substring} 4
   2. L = { w ∈ {a,b}\* : w starts with “bab”} 6