**BRAC University**

**Dept. of Computer Science and Engineering**

**Summer 2024**

**CSE331-06**

**QUIZ - 3(B)**

**Time: 25 minutes Marks: 30**

Name: ID: Section:

1. Give a context-free grammar that generates the language **[7+8+8=23]**
   1. L = { w ∈ {0, 1, 2}\*: w = 2i1j0k, where j = 3i, i,j,k ≥0}
   2. L = { w ∈ {0, 1}\*: The count of 1 in w is a multiple of four.}
   3. L = { w ∈ {a,b}\*:The length of w is even.}
2. Convert the following regular expression into context free grammar. **[7]**

c\*a(c+acb)\*+ aa