**BRAC University**

**Dept. of Computer Science and Engineering**

**Summer 2024**

**CSE331-07**

**QUIZ - 3(A)**

**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 k > 2i, i,j,k ≥0}
   2. L = { w ∈ {0, 1}\*: w ends with 110}
   3. L = { w ∈ {a,b}\*: w is a palindrome with middle symbols “a”.}
2. Convert the following regular expression into context free grammar. **[7]**

ac\*(bc+a)(c+acb)\*