**BRAC University**

**Dept. of Computer Science and Engineering**

**Summer 2024**

**CSE331-05**

**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 = 2i0j1k, where k = 3i+j, i,j ≥0}
   2. L = { w ∈ {0, 1}\*: The length of w is one less than the multiple of three.}
   3. L = { w ∈ {b}\*: w = bn,where n is odd.}
2. Convert the following regular expression into context free grammar. **[7]**

(a+bc)\*bcc\*(cc+ab)