**BRAC University**

**Dept. of Computer Science and Engineering**

**Fall 2024**

**CSE331-13**

**Time: 20 minutes Marks: 20**

Name: ID: Section:

1. Give a context-free grammar that generates the language **[6+6=12]**
   1. L = { w ∈ {a, b, c}\*: w = bicjak, where k ≥ 2i, i,j ≥0}
   2. L = { w ∈ {0,1}\*: w contains 0 only at even positions}
2. Convert the following regular expression into context free grammar. **[8]**

a + bc(cc+b)\* + a(c+b\*)