**BRAC University**

**Dept. of Computer Science and Engineering**

**Fall 2024**

**CSE331-14**

**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 = biajck, where k ≥ i + 2j, i,j ≥0}
   2. L = { w ∈ {0,1}\*: w contains 1 only at odd positions}
2. Convert the following regular expression into context free grammar. **[8]**

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