**BRAC University**

**Dept. of Computer Science and Engineering**

**Fall 2024**

**CSE331-11**

**Time: 20 minutes Marks: 20**

Name: ID: Section:

1. Give a context-free grammar that generates the language **[6+6=12]**
   1. L = { w ∈ {0, 1, 2}\*: w = 1i0j2k, where j = 2i+k, i,k ≥0}
   2. L = { w ∈ {a,b}\*: w starts with even number of ‘a’s}
2. Convert the following regular expression into context free grammar. **[8]**

aa + (a+bc)\*cbb(cc+b)