**BRAC University**

**Dept. of Computer Science and Engineering**

**Fall 2024**

**CSE331-12**

**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 = 1i2j0k, where k = 2i+3j, i,j ≥0}
   2. L = { w ∈ {a,b}\*: w starts with odd number of ‘b’s}
2. Convert the following regular expression into context free grammar. **[8]**

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