**CSE420: Compiler Design**

C

**Quiz 01, Fall 2017**

**Duration: 30 minutes, Total Marks: 15**

***Student Name:***

***Student ID:***

***Section:***

1. Consider the **(a\*b)|(bb)|(c|a)\*:**
   1. Convert the RE to NFA using Thompson’s Construction where, {a, b, c} are terminals (no need to show each step). [4]
   2. Draw the syntax tree of the RE, determine the nullability, first-pos and last-pos of each node. [7]
2. Convert the following NFA to DFA using subset construction method.[6]

