3) (10 pts) ALG (AVL Trees)

Show the result of inserting the following values into an initially empty AVL tree:

10, 7, 3, 22, 16, 13, 5, 18, 20 and 19.

Draw a box around your result *__after each insertion.__*

Computer Science Foundation Exam

January 13, 2018

Section II A

ALGORITHMS AND ANALYSIS TOOLS

**NO books, notes, or calculators may be used,
and you must work entirely on your own.**

Name: _____

UCFID: _____

NID: _____

Question #	Max Pts	Category	Passing	Score
1	10	ANL	7	
2	5	ANL	3	
3	10	ANL	7	
TOTAL	25		17	

You must do all 3 problems in this section of the exam.

Problems will be graded based on the completeness of the solution steps and <u>not</u> graded based on the answer alone. Credit cannot be given unless all work is shown and is readable. Be complete, yet concise, and above all <u>be neat</u>. For each coding question, assume that all of the necessary includes (stdlib, stdio, math, string) for that particular question have been made.