Goh Wei Zhe

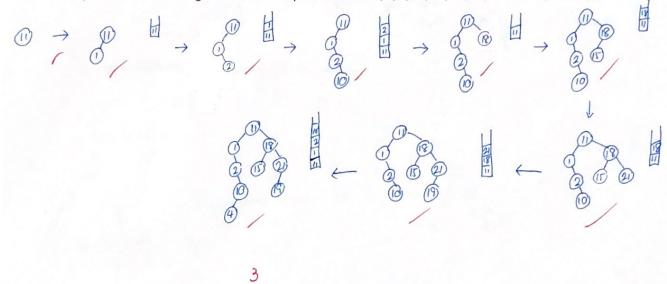
Quiz 2

Answer ALL the questions

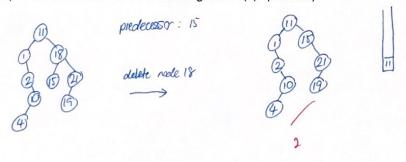


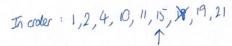
Total marks - 15 Time – 30 min

- 1. The following questions are on binary search trees (BSTs). Show what happens after each operation. Show any interim operations where applicable.
- a) Insert the following data into a Binary search tree: 11, 1, 2, 10, 18, 15, 21, 19 and 4. (3 marks)



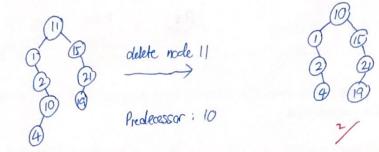
b) Delete node 18 from the resulting tree in (a). (2 marks)





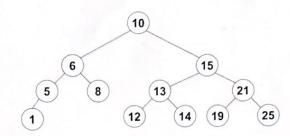


c) Delete node 11 from the resulting tree in (b) (2 marks)



In order 1,2,4,10,7,15, 19,21

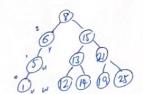
2. The following questions act on the tree below. Show what happens after each operation. Show any interim operations where applicable.



a) Delete node 10 from the above AVL tree: (4 marks)

horder: 1,5,6,8, \$, 12,13,14, 15,19,21,25

Predecessor: 8



BF = 2 > 0, cose 2 H_V > H_u, provote U once \rightarrow

