NAME: S. AJAY KUMAR Rept. 19BCS 101 Quiz Data structure and Inolder: A KBJCLDEHGFI Par Rober: LKA JBCIHEDFG Post order: ABCJKIDEFGHL Breadth first Sder: LKIHAJEFGBCD Q2) The final take will be He can say that above tree is not AVI tree Q3) Height=3 = n The smallest no of nodes = 2 = 2 = 4 hargest no of nodes = 2 2 -1 = 15 Tree will smallest no of nodes - A

In this leaf node = D Internal nodes - 1 A, B, C Tree with hargest no of nodes Qy) It is false In any preorder transversal, the first printed item is not the smallest one. According to this in preorder we first write root node, left & then right node And in Binary search tsel, the left child should be less than the soot and sight child

should be greater than the goot node. Here presider - 63648717 In the above example 3 is smaller than the root node b' but it is not in Q5) The breadth first traversal of given number 10 8 7 22 11 13 20 24 15 In the Given tree the deletion and addition of elements is not possible since it is not a binary search tree.

The Post order traversal sequence for binary search tree is given as 10, 30, 20, 150, 300, 200, 100 For Post order we follow the Sequence 1) Left node 2) Right Node 3) Root Mode. The final Binary tree can be drawn as Q7) If the given numbers are inserted in Eder the binary search there will be as follows. In Ader traversal as follow 0123456789 option  $\longrightarrow C$