HibColl Trees Questions

|  |  |
| --- | --- |
| Question 1  A tree is a connected graph that contains no cycles | Question 2  A tree on n vertices has n-1 degrees |
|  |  |
| Question 5  In order for a graph G to be a tree, the following property must hold | Question 6  In order for a graph G to be a tree, the following property must hold |
|  |  |
| Question 9  Let T be a tree with n vertices. Then T has n-1 edges.  True | Question 10  A balanced binary tree has 2^i nodes on all levels i apart from the highest level.  TRUE |
|  |  |
| Question 13  A ternary tree is a rooted tree in which internal node has exactly three children.  True  False  Correct Answer: True |  |
|  | Question 16  A binary child is a rooted tree in which each internal node has exactly  two children, the left child and right child respectively.  TRUE |
| Question 17  Binary Search Tree | Question 18 |
|  | Question 20 An IT company has 100,000 records on its database. What is the maximum number of comparisons that would be needed to match a target with an record in  the data base. |