

Max Marks 10

Max Time 10 Mins

Q1. In Union Find Data structure the Final complexity after two improvements comes to a specific function called _____ Function.

Q2. A Binomial Tree of order k has _____ nodes.

Q3. A Binomial heap with n nodes consists of at most _____ binomial trees.

Q4. if there is no pointer pointing to the minimum elements in the binomial heap then the time complexity to find the minimum element is _____.

Q5. A node is marked in the Fibonacci heap if at least _____

Q6. Show an valid Binomial Heap with the following nodes 3,5, 7, 10, 12, 15.

Q7. In case of insertion in a RB tree we never have a _____ Problem.

Q8. When we insert a node in the RB tree , the color of the node to be inserted is always _____.

Q9. In case of deletion in the RB tree we never have a _____ Problem.

Q10. To convert RB-Tree into a 2-4 Tree _____