## 50+ Pairing Heap (Data Structure) MCQs

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1. Which node contains a pointer to its parent? a) root node
b) right most child
c) left most child
d) left sibling
Answer: left most child
2. What is the basic operation performed in a pairing heap? a) merge
b) deletion
c) insertion
d) swapping
Answer: merge
3. If there are c children of the root, how many calls to the merge procedure is required to reassemble the heap? a) c
b) c+1
c) c-1
d) 1
Answer: c-1
4. Which of the following methods is the best choice for complex applications? a) binary heap
b) d-heap
c) treap
d) pairing heap
Answer: pairing heap
5. Pairing heaps time complexity was inspired by that of? a) splay tree
b) treap
c) red-black tree

d) avl tree

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## Answer: splay tree 6. The roots of the elements of the subtrees are smaller than the root of the heap. a) True b) False Answer: False 7. The amortized time efficiency for performing deletion of a minimum element is? a) O(N) b) O(log N) c) O(N2) d) O(M log N) Answer: O(log N) 8. Out of the following given options, which is the fastest algorithm? a) fibonacci heap b) pairing heap c) d-ary heap d) binary heap Answer: fibonacci heap 9. What is the run time efficiency of an insertion algorithm? a) O(N) b) O(log N) c) O(N2) d) O(M log N) Answer: O(N) 10. What is the reason for the efficiency of a pairing heap? a) simplicity b) time-efficient c) space-efficient d) advanced

Answer: simplicity