DS CLASS TEST (Dec 21) Section 4. Enter Section () A B \bigcirc c 5. Which of the following methods is the most effective for picking the pivot element? first element median-of-three partitioning last element random element 6. which Trees are Generalization of BST and can possess more than 1 key in a node

AVL Trees Btrees

Heap Trees

Graphs

7. Why "Bubble Sort" is named so?

As it works upon by choosing Pivot element

As it make the largest element bubble out at the largest index of sorted subarray and vice versa
As it works on Divide and Conquer technique
O None of the above
8. Minimum number of keys in each internal node in B-Tree Order 5 will be:-
2
○ 3
9. Quick sort uses
o join operation
merge operation.
O Join & Merge both operation
All of above
10. In the traversal we process all of a vertex's descendants before we move to an adjacent vertex
DFS
BFS
○ PreOrder
Opostorder

11. Merge sort uses

─ Backtracking
O Divide-and-conquer
Heuristic approach
Greedy approach
12. Running merge sort on an array of size n which is already sorted is
O(nlogn)
O(n)
O(n pow2)
None
13. A directed graph is if there is a path from each vertex to every other
Weakly Conected
Strongly Connected
Linearly Connected
Tightly Connected
14. A graph is a tree if and only if graph is
Oirected graph
Ontains no cycles
Contains no cyclesPlanar

15. Which of the following is not true about the 2-3 tree?
all leaves are at the same level
it is perfectly balanced
opostorder traversal yields elements in sorted order
it is B-tree of order 3
16. What is a hash function?
A function has allocated memory to keys
A function that computes the location of the key in the array
A function that creates an array
A function that computes the location of the values in the array
17. In simple chaining, what data structure is appropriate?
Binary trees
Singly linked list
Oubly linked list
Circular linked list
18. Which of the following is not a technique to avoid a collision?
Make the hash function appear random

Use the chaining method
O Use uniform hashing
Increasing hash table size
19. Graph traversal is different from a tree traversal, because:
trees are not connected
graphs may have loops
trees have root
O None of these
20. Which of the following ways can be used to represent a graph?
Adjacency List and Adjacency Matrix
O Incidence Matrix
Adjacency List, Adjacency Matrix as well as Incidence Matrix
No way to represent
21. AVL trees provide better insertion the 2-3 trees.
○ True
False

22. A binary tree in which all its levels except the last, have maximum numbers of nodes, and all the nodes in the last level have only one child it will be its left child. Name the tree.

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