## data-structure-ds-set-1 (mcqmate.com).pdf

Author: McqMate.com Data Structure (DS) MCQs [set-1] 1. Which if the following is/are the levels of implementation of data structure A. abstract level B. application level C. implementation level D. all of the above Answer: D 2. A binary search tree whose left subtree and right subtree differ in hight by at most 1 unit is called ...... A. avl tree B. red-black tree C. lemma tree D. none of the above Answer: A 3. Stack is also called as A. last in first out B. first in last out C. last in last out D. first in first out Answer: A 4. ..... is not the component of data structure. A. operations B. storage structures C. algorithms D. none of above Answer: D 5. Which of the following is not the part of ADT description? A. data B. operations C. both of the above D. none of the above Answer: D 6. ..... Is a pile in which items are added at one end and removed from the

other.
A. stack
B. queue
C. list
D. none of the above
Answer: B
7 is very useful in situation when data have to stored and then retrieved
in reverse order.
A. stack
B. queue
C. list
D. link list
Answer: A
8. Which data structure allows deleting data elements from and inserting at rear?
A. stacks
B. queues
C. dequeues
D. binary search tree
Answer: B
9. Which of the following data structure can't store the non-homogeneous data
elements?
A. arrays
B. records
C. pointers
D. stacks
Answer: A
10. A is a data structure that organizes data similar to a line in the
supermarket, where the first one in line is the first one out.
A. queue linked list
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B. stacks linked list
C. both of them
D. neither of them
Answer: A
11. Which of the following is non-liner data structure?
A. stacks
B. list
C. strings
D. trees

Answer: C
18. A directed graph is if there is a path from each vertex to every
other vertex in the digraph.
A. weakly connected
B. strongly connected
C. tightly connected
D. linearly connected
Answer: B
19. In the traversal we process all of a vertex's descendants before we
move to an adjacent vertex.
A. depth first
B. breadth first
C. with first
D. depth limited
Answer: A
20. The number of comparisons done by sequential search is
A. (n/2)+1
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B. (n+1)/2
C. (n-1)/2
D. (n+2)/2
Answer: B
21. In, search start at the beginning of the list and check every element
in the list.
A. linear search
B. binary search
C. hash search
D. binary tree search
Answer: A
22. Which of the following is not the internal sort?
A. insertion sort
B. bubble sort
C. merge sort
D. heap sort
Answer: C
23. A graph is said to be if the vertices can be split into two sets V1
and V2 such there are no edges between two vertices of V1 or two vertices of V2.
A. partite
B. bipartite

C. rooted
D. bisects
Answer: B
24. In a queue, the initial values of front pointer f rare pointer r should be
and respectively.
A. 0 and 1
B. 0 and -1
C1 and 0
D. 1 and 0
Answer: B
25. In a circular queue the value of r will be
A. r=r+1
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B. r=(r+1)% [queue_size – 1]
C. r=(r+1)% queue_size
D. r=(r-1)% queue_size
Answer: C
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