## Online Assessment (Even Sem/Part-I/Part-II Examinations 2019 - 2020

Course Name - Data Structure and Algorithm Course Code - DCSE203(BL) / DECE203(BL)

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8.

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Oip.ME		
MCA		
M.SC.(CS)		

9.

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	M.SC.(ANCS)
	M.SC.(MM)
	MBA
	M.SC.(BT)
	M.TECH(CSE)
	LLM
	M.A.(JMC)
	M.A.(ENG)
	M.SC.(MATH)
	M.SC.(MB)
Ar	nswer all the questions. Each question carry one mark.
9.	1. How many children does a binary tree have?
	Mark only one oval.
	2
	0 or 1 or 2
	any number of children
	0 or 1
10.	2. Traversal of a linked list always starts from the
	Mark only one oval.
	First Node
	Middle Node
	Last Node
	None of the above

11.	3. Evaluate the postfix expression 3574-2^*+
	Mark only one oval.
12.	4. O (1) means computing time is
	Mark only one oval.
	constant
	Quadratic
	Linear
	Cubic
13.	5. The data structure which is one ended is
	Mark only one oval.
	queue
	stack
	tree
	graph

14.	6. What is the average case time complexity of selection sort?
	Mark only one oval.
	<ul><li>O(nlogn)</li><li>O(logn)</li><li>O(n)</li><li>O(n2)</li></ul>
15.	7. If the sequence of operations – push (1), push (2), pop, push (1), push (2), pop pop, pop, push (2), pop are performed on a stack, the sequence of popped out values.
	Mark only one oval.
	2,2,1,1,2 2,2,1,2,2 2,1,2,2,1 2,1,2,2,2
16.	8. A linear list in which each node has pointers to point to the predecessor and successors nodes is called as
	Mark only one oval.
	Singly Linked List Circular Linked List Doubly Linked List Linear Linked List

17.	9. If several elements are competing for the same bucket in the hash table, what is it called?
	Mark only one oval.
	Diffusion
	Replication
	Collision
	Duplication
18.	10. Which of the following uses FIFO method?
	Mark only one oval.
	Queue
	Stack
	Hash table
	Linked List
19.	11. Linked list is generally considered as an example of type of memory allocation.
10.	
	Mark only one oval.
	Dynamic
	Compile Time
	Static
	None of these

20	12. Process of inserting an element in stack is called
	Mark only one oval.
	Create Push Evaluation Pop
21	13. Which of the following is non-liner data structure?  Mark only one oval.  Stacks
	List Trees Strings
22	14. Quicksort can be categorized into which of the following?  Mark only one oval.
	Brute Force technique  Divide and conquer  Greedy algorithm  Dynamic programming

23.	15. If in a linked list address of first node is 1020 then what will be the address of node at 5th position?
	Mark only one oval.
	1036
	1028
	1038
	Cannot determined
24.	16. Which among the below specified condition is applicable if the Queue is non – empty?
	Mark only one oval.
	rear > front
	rear < front
	rear = front
	Unpredictable
25.	17.What does a node possessing zero degree in Trees known as?
	Mark only one oval.
	Branch Node
	Root Node
	Leaf node
	Trunk node

26	o. 18. The situation when in a linked list START=NULL is
	Mark only one oval.
	underflow
	Overflow
	housefull
	saturated
27	7. 19. In linked list each node contain minimum of two fields. One field is data field to store the data second field is?
	Mark only one oval.
	Pointer to character
	Pointer to integer
	Pointer to node
	Pointer to float
28	3. 20. What is a full binary tree?
	Mark only one oval.
	Each node has exactly zero or two children
	Each node has exactly two children
	All the leaves are at the same leve
	Each node has exactly one or two children

29.	21. Which matrix has most of the elements (not all) as Zero?
	Mark only one oval.
	Unit Matrix Sparse Matrix Zero Matrix
30.	22. Which of the following is the fastest ways to store and retrieve data?
	Mark only one oval.
	Sorting Hashing Indexing Both A and B
31.	23. Which term is not related to queue?
	Mark only one oval.
	PUSH
	FRONT
	CIRCULAR

32.	24. If the elements "A", "B", "C" and "D" are placed in a queue and are deleted one at a time, in what order will they be removed?
	Mark only one oval.
	ABCD
	DCBA
	DCAB
	ABDC
33.	25. AVL Tree is
	Mark only one oval.
	a tree which is balanced and is a height balanced tree
	a tree which is unbalanced and is a height balanced tree
	a tree with three children
	a tree with atmost 3 children
34.	26. Postfix form of the expression: D + (E * F)
	Mark only one oval.
	EF*D+
	DEF*+
	DEF+*
	EFD*+

35.	27. The given array is arr = {3,4,5,2,1}. The number of iterations in bubble sort is,
	Mark only one oval.
	5 4
	2
	<u> </u>
36.	28. There are different ways of traversing a binary tree. What are those traversing technique?
	Mark only one oval.
	Prefix, infix, postfix
	Pre-traversal, in-traversal, post-traversal
	Pre-order, in-order, post-order
	None of the above
37.	29. Finding the location of a given item in a collection of items is called
	Mark only one oval.
	Discovering
	Finding
	Searching
	Mining

38.	30. Which among the following belongs to the category of a pre-Order Traversal?
	Mark only one oval.
	Root -> Left Sub Tree -> Right Sub Tree
	Left Sub Tree -> Root -> Right Sub Tree
	Root -> Right Sub Tree -> Left Sub Tree
	Right Sub Tree -> Left Sub Tree -> Root

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