S#	Question	ANS
	IMCA CA-3.3 Data Structures (254303)	AIVS
1	A list which displays the relationship of adjacency between elements is said to be A) Linear B) Non-Linear C) Linked-List D) Trees	A
2	The data structure which is one ended is A) Queue B) Stack C) Tree D) Graph	В
3	Which of the following is an application of stack? A) finding factorial B) tower of Hanoi C) infix to postfix conversion D) All the above	D
4	The time complexity of quick sort is	С
5	In a priority queue, insertion and deletion takes place at	D
6	A is a linear list in which insertions and deletions are made to from either end of the structure. A) circular queue B) random of queue C) priority D) dequeue	С
7	A linear list in which each node has pointers to point to the predecessor and successors nodes is called as A) Singly Linked List B) Circular Linked List C) Doubly Linked List D) Linear Linked List	С
8	The disadvantage in using a circular linked list is	A
9	Which of the following data structure is connected data structure? A) Graph B) Linked lists C) Both of the above D) None of the above	С
10.	Graph is collection of And A) Vertex and Edge B) Vertices and Edges C) Nodes,Links D) none of above	В

	When does top value of the stack not changes?	
	A) On Peep	
11	B) On Push	Α
	C) On Pop	'`
	D) None	
	keep track of address of first element in the link list.	
	A) Start	
12	B) End	Α
	C) Address	
	D) None	
	Each node in a doubly linked list has two pairs of pointers and and	
	A) Next field and information field	
13	B) Next field and avail field	D
	C) Avail field and information field	
	D) Next field and Prev field	
	Which of the following data structures are not indexed structures?	
	A) Linear arrays	_
14	B) Stack	D
	C) Queue	
	D) Trees	
	The DS in which element can be inserted/deleted at only one end is called	
	A) Stack.	
15	B) Queue	Α
	C) Array	
	D) None of the above	
	Linear arrays are also called	
4.6	A) Straight line array	
16	B) One-dimensional array	
	C) Vertical array	
	D) Horizontal array	
	The complex type of data structure is	
17	A) Array	
17	B) Complex array	D
	C) Two dimensional array	
	D) Three dimensional array	
	The organization of data in a logical orderis called a	
18	A) Data structure B) Sorting	В
10		D
	C) Merging D) Searching	
	Which of the following data structure is/are non-linear type?	
	A) Tree	
19	B) Graphs	D
19	C) Hierarchy	
	D) All the above	
	Which of the following data structure is/are linear type?	
	A) Strings	
20	B) Lists	D
	C) Stacks	
	D) All the above	
	When does top value of the stack changes?	
	A) Before deletion	
21	B) While checking underflow	D
	C) At the time of deletion	
	D) After deletion	

	A does not keep track of address of every element in the list.	
	A) Stack	
22	B) String	
22	C) Linear array	
	D) Queue	
	Each node in a linked list has two pairs of and	
	·	
22	,	
23	B) Link field and avail field	Α
	C) Avail field and information field	
 	D) Address field and link field	
	Which of the following data structures are indexed structures?	
	A) Linear arrays	_
24	B) Linked lists	A
	C) Graphs	
	D) Trees	
	Arrays are best data structures	
	A) For relatively permanent collections of data.	
25	B) For the size of the structure and the data in the structure are constantly changing	Α
	C) For both of above situation	
	D) For none of the above	
	Linear arrays are also called	
	A) Straight line array	
26	B) One-dimensional array	В
	C) Vertical array	
	D) Horizontal array	
	The simplest type of data structure is	
	A) Multidimensional array	
27	B) Linear array	В
	C) Two dimensional array	
	D) Three dimensional array	
	The logical or mathematical model of a particular organization of data is called a	
	A) Data structure	
28	B) Data arrangement	Λ
20	C) Data configuration	_ ^
	D) Data formation	
	Which of the following data structure is linear type?	
	- ''	
29	A) Array	Α
29	B) Tree	Α
	C) Graphs	
\vdash	D) Hierarchy Which of the following data structure is not linear type?	
	Which of the following data structure is non-linear type?	
	A) Strings	
30	B) Lists	D
	C) Stacks	
	D) Tree	
	Which of the following statement is false?	
	A. Arrays are dense lists and static data structure.	
31	B. Data elements in linked list need not be stored in adjacentspace in memory	C
	C. Pointers store the next data element of a list.	
$\sqcup \sqcup$	D. Linked lists are collection of the nodes that containinformation part and next pointer	
	Arrays are best data structures	
1 I	·	
	A. for relatively permanent collections of data	
32	A. for relatively permanent collections of dataB. for the size of the structure and the data in the structure areconstantly changing	Α
32		A

	The use of pointers to refer elements of a data structure in which elements are logically adjacent is	
	A. pointers	_
33	B. linked allocation	В
	C. stack	
	D. queue	
	Which of the following are the operations applicable an primitive data structures?	
	A. create	
34	B. destroy	D
	C. update	
	D. all of the above	
	The way in which the data item or items are logically related defines	
	A. storage structure	
35	B. data structure	В
	C. data relationship	
	D. data operation	
	Operations on a data structure may be	
	A. creation	
36	B. destruction	D
	C. selection	
	D. all of the above	
	A data structure where elements can be added or removed at either end but not in the middle is	
	called	
37	A. linked lists	D
37	B. stacks	D
	C. queues	
	D. dequeue	
	When new data are to be inserted into a data structure, but there is not available space; this	
	situation is usually called	
38	A. Underflow	В
	B. overflow	
	C. houseful	
	D. saturated	
	Which of the following data structure store the homogeneous data elements?	
	A. Arrays	_
39	B. Records	В
	C. Pointers	
	D. Lists	
	Which of the following data structures are indexed structures?	
40	A. Linear arrays	^
40	B. Linked lists	Α
	C. Queue	
	D. Stack State true or false.	
	i) An empty tree is also a binary tree.ii) In strictly binary tree, the out-degree of every node is either oor 2.	
41	A) True, False	C
41	B) False, True	C
	C) True, True	
	D) False, False	
	Is a directed tree in which outdegree of each node is less than or equal to two.	
	A) Unary tree	
42	B) Binary tree	В
42	C) Trinary tree	U
	D) Both B and C	
	5) Both Build C	

	A is an acyclic digraph, which has only one node with indegree 0, and other nodes have	
	indegree 1.	
	A) Directed tree	_
43	B) Undirected tree	Α
	C) Dis-joint tree	
	D) Direction oriented tree	
	Which is/are the application(s) of stack	
4.4	,	_
44	B) Large number Arithmetic	D
	C) Evaluation of arithmetic expressions	
-	D) All of the above	
	is not an operation performed on	
	linear list	
	a) Insertion b) Deletion c) Retrieval d) Traversal	_
45	A) only a,b and c	D
	B) only a and b	
	C) All of the above	
	D) None of the above	
Ţ	State true of false.	
	i) A node is a parent if it has successor nodes.	
	ii) A node is child node if out degree is one.	
,,	- -	_
46	A) True, True	В
	B) True, False	
	C) False, True	
	D) False, False	
	State true or false.	
	i) The degree of root node is always zero.	
	ii) Nodes that are not root and not leaf are called as internal nodes.	
	nodes that are not root and not lear are called as internal nodes.	
47	A) True, True	С
	B) True, False	
	C) False, True	
	D) False, False	
	The property of binary tree is	
	A) The first subset is called left subtree	_
48	B) The second subtree is called right subtree	D
	C) The root cannot contain NULL	
	D) The right subtree can be empty	
	Which of the following is not the type of queue?	
	A) Ordinary queue	
49	B) Single ended queue	В
	C) Circular queue	
	D) Priority queue	
	In general, the binary search method needs no more than comparisons.	
	A) [log2n]-1	
50	B) [logn]+1	D
50	C) [log2n]	
	D) [log2n]+1	
	A is a graph that has weights of costs associated with its edges.A) Network	
l	A I NATWORK	1
_	,	_
51	B) Weighted graph	С
51	,	С
51	B) Weighted graph	С
51	B) Weighted graph C) Both A and B	C

A) vertices, edges B) edges, vertices	
C) vertices, paths	
D) graph node, edges	
graph head, eager	
is not the operation that can be performed on queue.	
A) Insertion	
53 B) Deletion	D
C) Retrieval	
D) Traversal	
What will be the value of top, if there is a size of stack STACK_SIZE is 5	
A) 5	
54 B) 6	C
C) 4	
D) None The advantage of is that they solve the problem if sequential storage representation	2
But disadvantage in that is they are sequential lists.	11.
A) Liete	
55 B) Linked Lists	B
C) Trees	
D) Queues	
Which of the following statement is true?	
i) Using singly linked lists and circular list, it is not possible totraverse the list backwards	
ii) To find the predecessor, it is required to traverse the list fromthe first node in case of	
singly linked list.	
56 A) i-only	C
B) ii-only	
C) Both i and ii	
D) None of both	
In a circular queue the value of r will be	
A) r=r+1	
57 B) r=(r+1)% [QUEUE_SIZE – 1]	C
C) r=(r+1)% QUEUE_SIZE	
D) r=(r-1)% QUEUE_SIZE	
In a queue, the initial values of front pointer f rare pointer r should be and	
respectively.	
58 A) 0 and 1 B) 0 and -1	В
B) 0 and -1 C) -1 and 0	
D) 1 and 0	
A graph is said to be if the vertices can be split into two sets V1 and V2 such there a	are
no edges between two vertices of V1 or two vertices of V2.	
A) Partito	
59 B) Bipartite	B
C) Rooted	
D) Bisects	
State True or False.	
i) An undirected graph which contains no cycles is called forest.	
ii) A graph is said to be complete if there is an edge betweenevery pair of vertices.	
60 A) True, True	A
B) False, True	
C) False, False	
D) True, False	
Which of the following is not the internal sort?	
61 A) Insertion Sort	C
B) Bubble Sort	

State True or False. 1) Binary search is used for searching in a sorted array. ii) The time complexity of binary search is O(logn.) 2		C) Merge Sort	
D Binary search is used for searching in a sorted array, ii) The time complexity of binary search is Octogon. D			
D Binary search is used for searching in a sorted array, ii) The time complexity of binary search is Octogon. D			
62 A) True, False B) False, True C) False, False D) True, True Insearch start at the beginning of the list and check every element in the list. A) Linear search A) Linear search C) Hash Search D) Binary research The number of comparisons done by sequential search is A) (N/2)+1 B) (N+1)/2 C) (N+1)/2 D) (N+2)/2 State True of False. I) Network is a graph that has weights or costs associated with it. Ii) A praph is said to be complete if there is no edge between every pair of vertices. A) True, False. C) True, True, False C) True, True False C) True, False C) True, True False C) True, False C) True, True False C) True, True, False C) True, True False C) True, True, False C) True, True			
D			
B) False, True C) False, False D) True, True In			_
C) False, False D) True, True In	62		D
D True, True True			
Name			
A) Linear search C) Binary search C) Binary Tree search D) Binary Tree search D) Binary Tree search A) (N/2)+1 A) (N/2)+1 B B(N+1)/2 C) (N-1)/2 D) (N+2)/2 State True of False. i) Network is a graph that has weights or costs associated with it. ii) An undirected graph which contains no cycles is called a forest. iii) A graph is said to be complete if there is no edge between every pair of vertices. A) True, False, True B) True, True, False C) True, True, True D) False, True D) False, True, True D) False, True D) False, True D) False, True D) False,			
Binary search			
C) Hash Search D) Binary Tree search The number of comparisons done by sequential search is	C 2	,	^
D Binary Tree search The number of comparisons done by sequential search is	63		Α
The number of comparisons done by sequential search is		,	
A) (N/2)+1 B) (N+1)/2 C) (N+1)/2 D) (N+2)/2 State True of False. i) Network is a graph that has weights or costs associated with it. ii) An undirected graph which contains no cycles is called a forest. iii) A paraph is said to be complete if there is no edge between every pair of vertices. A) True, False, True B) True, True, False C) True, True, True D) False, True, True A directed graph is			
B (N+1)/2 (N-1)/2		·	
C) (N-1)/2 D) (N+2)/2 State True of False. i) Network is a graph that has weights or costs associated with it. ii) An undirected graph which contains no cycles is called a forest. iii) An undirected graph which contains no cycles is called a forest. iii) An graph is said to be complete if there is no edge between every pair of vertices. A) True, False, True B) True, True, False C) True, True, False C) True, True, Frue A directed graph is	6.4		D
D) (N+2)/2 State True of False. i) Network is a graph that has weights or costs associated with it. ii) An undirected graph which contains no cycles is called a forest. iii) A graph is said to be complete if there is no edge between every pair of vertices. A) True, False, True, False, True, True, False, True, Tru	64		В
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Iii) An undirected graph which contains no cycles is called a forest. Iiii) A graph is said to be complete if there is no edge between every pair of vertices. A) True, False, True B) True, True, Frue D) False, True, True, True False, True, True Palse, True, True, True Palse, True,			
B B Trees D Graph		,	
False, True B) True, True, False C) True, True, True D) False, True, True D) False, True, True A directed graph is			
B) True, True, False C) True, True, True D) False, True, True A directed graph is	65		В
C) True, True D) False, True, True A directed graph is			
D) False, True, True A directed graph is			
A directed graph is			
digraph. A) Weakly connected B) Strongly Connected C) Tightly Connected D) Linearly Connected D) Linearly Connected To represent hierarchical relationship between elements, Which data structure is suitable? A) Dequeue B) Priority C) Tree D) Graph 19. Which of the following data structure is linear type? A) Graph B) Trees C) Binary tree D) Stack Which of the following data structure is non linear type? A) Strings B) Lists C) Stacks D) Graph Identify the data structure which allows deletions at both ends of the list but insertion at only one end. A) Input restricted dequeue B A Output restricted dequeue B A Output restricted dequeue A			
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D) Stack Which of the following data structure is non linear type? A) Strings B) Lists C) Stacks D) Graph Identify the data structure which allows deletions at both ends of the list but insertion at only one end. A) Input restricted dequeue B) Output restricted qequeue			_
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end. A) Input restricted dequeue B) Output restricted qequeue			
end. A) Input restricted dequeue B) Output restricted qequeue		Identify the data structure which allows deletions at both ends of the list but insertion at only one	
B) Output restricted qequeue			
B) Output restricted qequeue	70	A) Input restricted dequeue	Α
			-

	D) Stack	
	Which data structure is used in breadth first search of a graph to hold nodes?	
	A) Stack	
	B) queue	
71	C) Tree	В
	D) Array	
	Herder node is used as sentinel in	
	A) Graphs	
72	B) Stacks	C
	C) Binary tree	
	D) Queues	
	Which of the following is non-liner data structure?	
73	A) Stacks B) List	D
/3	C) Strings	0
	D) Trees	
	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	
74	B) Stacks linked list	Α
	C) Both of them	
	D) Neither of them	
	Which of the following data structure can't store the non-homogeneous data elements?	
	A) Arrays	
75	B) Records	Α
	C) Pointers	
	D) Stacks	
	Which data structure allows deleting data elements from and inserting at rear?	
7.0	A) Stacks	
76	B) Queues	В
	C) Dequeues D) Binary search tree	
	D) Binary search treeis very useful in situation when data have to stored and then retrieved in reverse order.	
	A) Stack	
77	B) Queue	Α
	C) List	
	D) Link list	
	Is a pile in which items are added at one end and removed from the other.	
	A) Stack	
78	B) Queue	В
, 0	C) List	"
	D) None of the above	
	Incorting an item into the stack when stack is not full is called.	
	Inserting an item into the stack when stack is not full is called Operation and deletion of item form the stack, when stack is not empty is calledoperation.	
	A) push, pop	
79	B) pop, push	Α
, ,	C) insert, delete	_ ^
	D) delete, insert	
	Which of the following is not the part of ADT description?	
	A) Data	
80	A) Data B) Operations	D
80	A) Data	D

	is not the component of data structure.	
_	A) Operations	_
81	B) Storage Structures	D
	C) Algorithms	
	D) None of above	
	Which of the following is true about the characteristics of abstract data types?	
	i) It exports a type.	
	ii) It exports a set of operations	
82	A) True, False	C
	B) False, True	
	C) True, True	
	D) False, False	
	Stack is also called as	
	A) Last in first out	
83	B) First in last out	Α
	C) Last in last out	
	D) First in first out	
	level is where the model becomes compatible executable code	
	A) Abstract level	
84	B) Application level	C
0.	C) Implementation level	C
	D) All of the above	
	A binary search tree whose left subtree and right subtree differ in hight by at most 1 unit is called	
	A) Lemma Tree	
85	,	В
0.5	B) AVL Tree	D
	C) Red-Black Tree	
	D) None of the Above	
	Which if the following is/are the levels of implementation of data structure?	
	A) Abstract level	
86	B) Application level	D
80	,	U
	C) Implementation level D) All of the above	
	Any node is the path from the root to the node is called	
0.7	A) Successor node	ъ
87	B) Ancestor node	В
	C) Internal node	
	D) None of the above45.	
	Match the following.	
	a) Completeness i) How long does it take to find a solution	
	b) Time Complexity ii) How much memory need to perform the search.	
	c) Space Complexity iii) Is the strategy guaranteed to find the solution when there in one.	_
88	A) a-iii, b-ii, c-i	C
	B) a-i, b-ii, c-iii	
	C) a-iii, b-i, c-ii	
	D) a-i, b-iii, c-ii	
	In the traversal we process all of a vertex's descendants before we move to an adjacent	
	vertex.	
20	A) Depth First	_
89	B) Breadth First	Α
	C) With First	
	D) Depth Limited	
	-/p	
	There is an extra element at the head of the list called a	
90	There is an extra element at the head of the list called a A) Antennal	В

	B) Sentinel	
	C) List header	
	D) List head	
	The data structure which is both ended is	
	A) Queue	
91	B) Stack	Α
	C) Tree	
	D) Graph	
	The operation of finding location of element in data structure is	
	A) Traversing	
00	B) Searching	
92	C) Sorting	В
	D) Insertion	
	The operation of inserting new element in data structure is	
	A) Traversing	
93	B) Searching	D
	C) Sorting	
	D) Insertion	
	The operation of deleting an existing element in data structure is	
	A) Traversing	
94	B) Searching	В
	C) Deletion	
	D) Insertion	
	The operation of combining more than one data structures in one data structure is	
	A) Traversing	
95	B) Searching	D
	C) Sorting	
	D) Merging	
	The operation of visiting each element in data structure once is	
0.0	A) Traversing	
96	B) Searching	A
	C) Sorting	
	D) Insertion	
	Which Algo. Is used to find Minimum Spanning Tree from given graph?	
07	A) Prims	
97	B) Kruskal	L C
	C) Both A & B	
	D) None of the above Which of the following is not a type of Oueue?	
	Which of the following is not a type of Queue?	
98	A) Priority Queue	D
90	B) Ordinary Queue C) Double Ended Queue	В
	C) Double Ended Queue D) Circular Queue	
	Tree begins at	
	A) Root Node	
99	B) Leaf Node	Α
	C) Both A & B	
	D) None	
	AVL tree is also called as	
	A) Traversal Tree	
100	B) BST	С
	C) Height Balanced Tree	
	D) None	
L	,	