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

Course Name - Data Structures and Algorithm Course Code - BCA202(BL)_BCS202(BL)

- * You can submit the form ONLY ONCE.
- * Fill the following information for further process.
- * Required

1.	Email address *
2.	Name of the Student *
3.	Enter Full Student Code *
4.	Enter Roll No *
5.	Enter Registration No *
6.	Enter Course Code *

7.	Enter Course Name *
8.	Select Your Programme *
	Mark only one oval.
	D.PHARM
	B.SC.(CS)
	B.SC.(HN)
	B.A.(MW)
	BBA
	B.COM
	BCA
	M.SC.(CS)
	M.SC.(HN)
	M.A.(MW)
	MBA
	M.TECH(CSE)
Α	nswer all the questions. Each question carry one mark.
9.	1. Which of these best describes an array?
	Mark only one oval.
	A data structure that shows a hierarchical behaviour
	Container of objects of similar types
	Arrays are immutable once initialised
	Array is not a data structure

2. The number of colors used by a proper coloring graph is called?

10.

	Mark only one oval.
	k coloring graph
	x coloring graph
	m coloring graph
	n coloring graph
11.	3. The postfix form of A*B+C/D is
	Mark only one oval.
	*AB/CD+
	AB*CD/+
	A*BC+/D
	ABCD+/*
12.	4. Which type of linked list contains a pointer to the next node in the sequence?
	Mark only one oval.
	Singly Linked List
	Circular Linked List
	Doubly Linked List
	All of these.

13.	5. The best data structure to evaluate an arithmetic expression (in postfix form) is
	Mark only one oval.
	Queue
	Stack
	Tree
	linked list
1.4	(A
14.	6. A normal queue is implemented using an array of size MAX_SIZE, gets full when
	Mark only one oval.
	Rear = MAX_SIZE - 1
	Front = (rear + 1)mod MAX_SIZE
	Front = rear + 1
	Rear = front
15.	7. Which expressions are also regarded as 'Reverse Polish Notations '?
	Mark only one oval.
	Prefix
	Postfix
	Infix
	None of these

16.	8. Which of the following methods can be used to solve n-queen's problem?
	Mark only one oval.
	greedy algorithm
	divide and conquer
	iterative improvement
	backtracking
17.	9. How many possible solutions exist for an 8-queen problem?
	Mark only one oval.
	100
	98
	92
	88
18.	10. Which search is better?
	Mark only one oval.
	Linear
	Binary
	both Linear &Binary
	None of these

19.	11. The complexity of Floyd warshall algorithm is
	Mark only one oval.
	O(V2)
	O(V3)
	O(E2)
	O(E3)
20.	12. The problem of placing n queens in a chessboard such that no two queens attack each other is called as?
	Mark only one oval.
	n-queen problem
	eight queens puzzle
	four queens puzzle
	1-queen problem
21.	13. The retrieval of items in a stack is operation.
	Mark only one oval.
	Push
	Pop
	Retrieval
	access

22.	14. 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 level
	Each node has exactly one or two children
23.	15. The elements are removed from a stack in order.
	Mark only one oval.
	Reverse
	Hierarchical
	Alternative
	Sequential
24.	16. In how many directions do queens attack each other?
	Mark only one oval.
	1
	2
	3
	4

25.	17. Before inserting into the stack one must check the condition
	Mark only one oval.
	Overflow
	Underflow
	Maximum elements
	Existing elements
26.	18 is a collection of elements such that each element has been assigned a processing priority.
	Mark only one oval.
	Priority queue
	Procedure queue
	Main queue
	Interrupt queue
27.	19. In, search starts at the beginning of the list and checks every element in the list
	Mark only one oval.
	Linear search
	Binary search
	Hash Search
	Binary Tree search

28.	20. The operation of processing each element in the list is known as
	Mark only one oval.
	Sorting
	Merging
	Inserting
	traversal
29.	21. To insert a new node in the linked list free node will be available in
	Mark only one oval.
	Available list
	Avail list
	Free node list
	Memory space list
30.	22. A doubly linked list is also called as
50.	
	Mark only one oval.
	linked list
	one way chain
	two way chain
	right link

31.	23. Where is the n-queens problem implemented?
	Mark only one oval.
	carom chess ludo cards
32.	24. What does 'stack underflow' refer to?
	Mark only one oval.
	accessing item from an undefined stack adding items to a full stack removing items from an empty stack index out of bounds exception
33.	25. To obtain a prefix expression, which of the tree traversals is used? Mark only one oval.
	Level-order traversal Pre-order traversal Post-order traversal In-order traversal

34.	26. Which type of traversal of binary search tree outputs the value in sorted order?
	Mark only one oval.
	Pre-order
	In-order
	Post-order
	None of these
35.	27. The process of accessing data stored in a serial access memory is similar to manipulating data on a
	Mark only one oval.
	heap
	queue
	stack
	binary tree
36.	28. Which of the following data structures is linear data structure?
	Mark only one oval.
	Trees
	Graphs
	Arrays
	None of these

37.	29. A BST is traversed in the following order recursively: Right, root, left The output sequence will be in
	Mark only one oval.
	Ascending order
	Descending order
	Bitonic sequence
	No specific order
38.	30. The data structure required to check whether an expression contains balanced parenthesis is?
	Mark only one oval.
	Stack
	Queue
	Array
	Tree
39.	Submission ID (skip this field) *
	△ DO NOT EDIT this field or your time will not be recorded.

This content is neither created nor endorsed by Google.

Google Forms