## Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021

Course Name - - Data Structure and Algorithm Course Code - BCSE201

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1.	Email *
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.

Mark only one oval.		
Diploma in Pharmacy		
Bachelor of Pharmacy		
B.TECH.(CSE)		
B.TECH.(ECE)		
BCA		
B.SC.(CS)		
B.SC.(BT)		
B.SC.(ANCS)		
B.SC.(HN)		
B.Sc.(MM)		
B.A.(MW)		
BBA		
B.COM		
B.A.(JMC)		
BBA(HM)		
BBA(LLB)		
B.OPTOMETRY		
B.SC.(MB)		
B.SC.(MLT)		
B.SC.(MRIT)		
B.SC.(PA)		
LLB		
B.SC(IT)-AI		
B.SC.(MSJ)		
Bachelor of Physiotherapy		
B.SC.(AM)		
Dip.CSE		
Dip.ECE		
<u>DIP.EE</u>		
DIPCE		

9.

<u>DIP.ME</u>
PGDHM
MBA
M.SC.(BT)
M.TECH(CSE)
LLM
M.A.(JMC)
M.A.(ENG)
M.SC.(MATH)
M.SC.(MB)
M.SC.(MSJ)
M.SC.(AM)
M.SC.CS)
M.SC.(ANCS)
M.SC.(MM)
B.A.(Eng)
Answer all the questions. Each question carry one mark.
. 1. Algorithm is
Mark only one oval.
Step by step process to solve a problem
Pictorial representation to solve a problem
Solving a problem anyhow
All of these

10.	2. The theta notation represents
	Mark only one oval.
	Upper bound
	Lower bound
	Tight bound
	No bound
11.	3. What does it mean when we say that an algorithm X is asymptotically more efficient than Y?
	Mark only one oval.
	X will always be a better choice for small inputs
	X will always be a better choice for large inputs
	Y will always be a better choice for small inputs
	X will always be a better choice for all inputs
12.	4 is pictorial representation of an algorithm.
	Mark only one oval.
	Program
	Diagram
	Picture
	Flowchart

13.	5. O(1) mean
	Mark only one oval.
	Time is constant
	Time is quadratic
	Time is linear
	Time is logarithm
14.	6. O(log n) mean
	Mark only one oval.
	Time is constant
	Time is quadratic
	Time is linear
	Time is logarithm
15.	7. Which is not associated with defining complexity?
	Mark only one oval.
	Worst case
	Null case
	Best case
	Average case

16.	8. Column major order is a method to arrange elements sequentially
	Mark only one oval.
	Column wise
	Row wise
	Table wise
	Linear wise
17.	9. In sparse matrix, most elements are
	Mark only one oval.
	O
	empty
	1
	2
18.	10. Elements of an array are stored in
10.	io. Elements of all array are stored in
	Mark only one oval.
	Linear manner
	Random manner
	Contiguous manner
	Top to bottom manner

19.	11 follow FIFO method.
	Mark only one oval.
	Stack
	Queue
	Linked List
	Circular Linked List
20.	12 follow LIFO method
	Mark only one oval.
	Stack
	Queue
	Linked List
	Circular Linked List
21.	13. Which of the following is not a type of Linked list?
	Mark only one oval.
	Singly Linked List
	Doubly Linked List
	Straight Linked List
	Circular Linked List

22.	14. In singly Linked list, the pointer is pointing to the
	Mark only one oval.
	Middle element
	Next element
	First element
	Last element
23.	15. How many pointer/s needed to implement double Linked list?
	Mark only one oval.
	1
	3
	2
	4
24.	16. In double Linked list, the last pointer holds
	Mark only one oval.
	Address of previous node
	Address of first node
	Address of next node
	Null

25.	17. The value of pointer in singly Linked list if there is only one node
	Mark only one oval.
	3
	2
	1
	Null
26.	18. Traversal in Linked list always begins with
	Mark only one oval.
	Second node
	Last node
	First node
	Third node
27.	19is used to hold the first element on stack.
	Mark only one oval.
	Тор
	Next
	Bottom
	Previous

28.	20. Deletion operation in stack is called
	Mark only one oval.
	Pop
	Push
	Insert
	Delete
29.	21. The value of top (tos) when stack is empty
	Mark only one oval.
	0
	1
	1
	2
30.	22. Which of the following is used to calculate postfix expression?
	Mark only one oval.
	Stack
	Linked list
	Queue
	Graph

9 - 20>Even

34.	26. Deletion in queue is done through end.
	Mark only one oval.
	front
	rear
	back
	last
35.	27. What is the value of rear when queue is empty?
	Mark only one oval.
	O
	1
	1
	2
36.	28. The value of front is incremented by 1 when data element is
	Mark only one oval.
	Inserted
	Searched
	Deleted
	None of these

37.	29. Enqueue is a process of
	Mark only one oval.
	Insertion
	Searching
	Deletion
	Traversal
38.	30. What is the value of front when queue is empty?
	Mark only one oval.
	O
	1
	1
	2
39.	31. FIFO mean
	Mark only one oval.
	First in first out
	First input first out
	Free in free out
	First in first output

40.	32. In circular queue, the value of rear is where MAX is the size of queue
	Mark only one oval.
	Rear = rear +1
	Rear = (rear +1) % MAX
	Rear = rear - 1
	Rear = (rear -1) % MAX
41.	33. If an element is deleted in a queue, the value of is incremented by 1.
	Mark only one oval.
	Rear
	Front
	First
	Last
42.	34. Which of the following is a non linear data structure?
	Mark only one oval.
	Array
	Linked list
	Stack
	Tree

13	35	Tho	noctfiv	expression	Ωf	2±h*	ر_ ط
43.	<b>3</b> 3.	me	DOSTIIX	expression	OΙ	a+D	c-a

Mark only one oval.

- \_\_\_\_ ab\*c + −d
- ab + c \* d -
- + a \* bcd
- abc\* + d -
- 44. 36. Node in Linked list is created at ..........

Mark only one oval.

- Compile time
- Statically
- Runtime
- Any time
- 45. 37. The value of postfix expression 3574-2<sup>\*</sup> + is

Mark only one oval.

- 48
- 50
- 45
- **41**

46.	38. Index of an array starts with
	Mark only one oval.
	0
	2
	1
	-
47.	39. The numbers of elements of a 2D array can be obtained using
	Mark only one oval.
	Row * Column
	Row - Column
	Row + Column
	Row / Column
48.	40is not a type of queue.
	Mark only one oval.
	Circular queue
	Double ended queue
	Ordinary queue
	Priority queue

49.	41. Which of the following does not related to queue?
	Mark only one oval.
	push front
	rear
	circular
50.	42. The elements a, b, d, c, e are inserted in queue, the order of deletion is
	Mark only one oval.
	abcde
	adbce
	abdce
	abedc
51.	43. Pointer is used in singly Linked list to point to the
	Mark only one oval.
	Null
	Next node
	Start of the node
	Last node

52.	44. Type of Linked list where the last node points to the first node rather than NULL
	Mark only one oval.
	Singly Linked list Circular Linked list Doubly Linked list All of these
53.	45. Input restricted queue is a type of which queue?  Mark only one oval.  Priority queue  Double ended queue  Circular queue  Simple queue
54.	46. Priority queue works on the principle of  Mark only one oval.  LIFO PRIORITY FIFO None of these

55.	47. Deletion of an element is performed first in priority queue having
	Mark only one oval.
	High priority
	Same priority
	Low priority
	No priority
56.	48. Deletion of two elements in priority queue with same priority follows
	Mark only one oval.
	FIFO
	Randomly
	LIF0
	None of these
57.	49. Deletion operation, if the capacity of stack is empty gives
	Mark only one oval.
	Stack overflow
	Stack no flow
	Stack underflow
	of these

58.	50. Students standing in a line, roll number wise is an example of
	Mark only one oval.
	Stack
	Graph
	Queue
	Tree
59.	51. Which of the following is/are true about Linked list when compared with array?
	Mark only one oval.
	buThe size of array has to be pre-decided, linked lists can change their size any time
	Random access is not allowed in implementation of Linked Lists
	It is easy to insert and delete elements in Linked List
	All of thesebble
60.	52. How many elements are present in the stack if the variable Top pointing towards the topmost element -
	Mark only one oval.
	0
	Top +1
	Top -1
	1

61.	53. Structure defined to create a node in Linked list is
	Mark only one oval.
	homogenous
	heterogeneous
	Both (a) &(b)
	None of these
62.	54 data structure is useful in implementation of quick sort.
	Mark only one oval.
	BST
	Stack
	List
	Queue
63.	55. The number of iterations in selection sort (ascending order) of an array = {3,4,5,2,1} are
	Mark only one oval.
	3
	2
	4
	5

64.	56. Quick sort follows
	Mark only one oval.
	Divide & conquer  Brute force technique
	Greedy algorithm
	Dynamic programming
65.	57. Merge sort works on the principle of
	Mark only one oval.
	Divide & conquer
	Brute force technique
	Greedy algorithm
	Dynamic programming
66.	58. In first iteration, the merge sort algorithm divides the array into sub arrays.
	Mark only one oval.
	5
	2
	3
	4

67.	59. The sorting (ascending order) in which the last element is sorted in first pass is
	Mark only one oval.
	Bubble sort
	Insertion sort
	Heap sort
	Quick sort
68.	60. The sorting (ascending order) in which the minimum value element is selected and placed at the beginning is
	Mark only one oval.
	Bubble sort
	Insertion sort
	Selection sort
	Quick sort
69.	61. The sorting where an element is selected as a pivot and the array is partitioned based on it is
	Mark only one oval.
	Bubble sort
	Insertion sort
	Selection sort
	Quick sort

70.	62. Searching process will be easy if elements are
	Mark only one oval.
	Sorted
	Same for all
	Not sorted
	Not determined
71.	63. Searching in a linear manner is called
	Mark only one oval.
	Linear searching
	Binary searching
	Line searching
	Non linear searching
72.	64. The fastest way to store and search data is
	Mark only one oval.
	bubbSorting
	Hashing
	Both (a) & (b)
	Indexingle

/3.	65. Function used in hashing data structure is called
	Mark only one oval.
	Linear function
	Hash function
	Non linear function
	None of these
74.	66. The use of hashing is to search that takes
	Mark only one oval.
	0(1) time
	O(n) time
	O(log n) time
	O(n log n) time
75.	67. Which of the following is not a collision resolution strategy for open addressing?
	Mark only one oval.
	Quadratic probing
	Linear probing
	Rehashing
	All of these

76.	68. The process where elements are competing for the same bucket is
	Mark only one oval.
	Collision
	Diffusion
	Duplication
	Replication
77.	69. Which of the following is used in making hash tables?
	Mark only one oval.
	Linked list
	Queue
	Stack
	None of these
78.	70. Key-value pairs is visible in
, 0.	
	Mark only one oval.
	Heaps
	Hash table
	Both (a) & (b)
	Skip list

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