Review: UNIT-V LINKED STACK AND LINKED QUEUE

	Respondent		07:05	0./1.0
	5	Anonymous	07:25 Time to complete	9/10 Points
1.	PRN numbe	r *		Score / 0 pts
	2414110204			
2.	Name: *			Score / 0 pts
	Anwesha Du	ıbey		
3.	Div: *			Score / 0 pts
	CE-1			

✓ Correct 1/1 Points

/ 1 pt

Auto-graded

		ones i, i i omes	Auto-graded
6.	void NUL prin		
		Prints all nodes of linked lists	
		Prints all nodes of linked list in reverse order 🗸	
		Prints alternate nodes of Linked List	
		Prints alternate nodes in reverse order	
	✓ C	orrect 1/1 Points	1 / 1 pt Auto-graded
7.	Whi abo		
		Arrays have better cache locality that can make them better in terms of performance.	
		It is easy to insert and delete elements in Linked List	
		Random access is not allowed in a typical implementation of Linked Lists	
		The size of array has to be pre-decided, linked lists can change their size any time.	
		All of the above	

✓ Correct 1/1 Points

1 / 1 pt

- 8. A circularly linked list is used to represent a Queue. A single variable p is used to access the Queue. To which node should p point such that both the operations enQueue and deQueue can be performed in constant time? (GATE 2004) *
 - □ rear node
 ✓
 - front node
 - onot possible with a single pointer
 - node next to front
 - ✓ **Correct** 1/1 Points

1 / 1 pt Auto-graded

- 9. How many stacks are needed to implement a queue. Consider the situation where no other data structure like arrays, linked list is available to you. *

 - 2 ✓
 - () a
 - 0 4

Fibonacci Heap

None of the above

		Auto-graded
10.	Which of the following operations on a queue data structure has a time complexity of O(1)?	
	A) Enqueue B) Dequeue C) Peek D) Clear *	
	A and B	
	○ B only ✓	
	○ C only	
	A and D	
	✓ Correct 1/1 Points	1 / 1 pt Auto-graded
11.	A priority queue can efficiently implemented using which of the following data structures? Assume that the number of insert and peek (operation to see the current highest priority item) and extraction (remove the highest priority item) operations are almost same. *	
	Array	
	C Linked List	
	Heap Data Structures like Binary Heap,	

- 12. Which of the following is true about linked list implementation of queue? *
 - In push operation, if new nodes are inserted at the beginning of linked list, then in pop operation, nodes must be removed from end.
 - In push operation, if new nodes are inserted at the end, then in pop operation, nodes must be removed from the beginning.
 - Both of the above ✓
 - None of the above
 - ✓ **Correct** 1/1 Points

1 / 1 pt Auto-graded

- 13. A Priority-Queue is implemented as a Max-Heap. Initially, it has 5 elements. The levelorder traversal of the heap is given below: 10, 8, 5, 3, 2 Two new elements "1' and "7' are inserted in the heap in that order. The levelorder traversal of the heap after the insertion of the elements is: *
 - 10, 8, 7, 5, 3, 2, 1
 - 10, 8, 7, 2, 3, 1, 5
 - 10, 8, 7, 1, 2, 3, 5
 - 0 10, 8, 7, 3, 2, 1, 5 🗸