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Started on State	Friday, 2 February 2024, 11:30 AM Finished							
	Friday, 2 February 2024, 11:45 AM							
	14 mins 44 secs							
Grade 8.50 out of 17.00 (50 %)								
Question 1								
Correct								
Mark 1.00 out of 1.00								
What are the attrib	utes of a node in the doubly linked list data structure?							
a. Data Value								
b. Pointer to ne	ext node							
o c. Pointer to pr	evious node							
d. All of these	✓							
o e. None of the	Se							
Your answer is corre								
The correct answer								
All of these	is.							
Question 2 Correct								
Mark 1.00 out of 1.00								
A variant of linked	list in which the last node does not contain next address as NULL is:							
a. All of these								
b. Circular linke	ed list							
c. Doubly linke	d list							
d. Singly linked	l list							
O e. Multi linked	list							
Your answer is corre	ect.							
The correct answer								
Circular linked list								

Question 3	
Partially correct	
Mark 0.50 out of 1.00	
Which of the following statements is/are not correct?	
\square a. If a running time is $\Omega(f(n^1))$, then for large enough n, the running time is at least $c*f(n^1)$ for some constant c.	
☑ b. ADT gives an implementation dependent view.	~
c. Linked List uses Doubly Linked List to store its elements.	×
d. Implementing Queue using ArrayList is more efficient than implementing Queue using <u>LinkedList</u> .	•
Your answer is partially correct.	
You have selected too many options.	
The correct answers are:	
Implementing Queue using ArrayList is more efficient than implementing Queue using LinkedList.,	
ADT gives an implementation dependent view.	
Question 4	
Correct	
Mark 1.00 out of 1.00	
What is the disadvantage of linked list (LL) over arrays?	
a. LL is dynamic in nature	
b. LL cannot access element randomly	~
S. E. Camiot access clement randomly	
c. Both (a) and (b)	
d. None of the above	
d. None of the above	
d. None of the above	
Your answer is correct.	
Your answer is correct.	
Your answer is correct. The correct answer is:	
Your answer is correct. The correct answer is:	
Your answer is correct. The correct answer is:	

Question 5 Incorrect Mark 0.00 out of 1.00	
How many pointer(s) needed to traverse a given linked list of size n?	
○ a. 0	
O b. n-1	
○ c. n+1	
	×
○ e. n	
Your answer is incorrect.	
The correct answer is: n+1	
IIT I	
Question 6	
Correct	
Mark 1.00 out of 1.00	
In a singly linked list, if the next reference of a node is null then that node is	
a. Neither head node nor tail node.	
b. Either head node or tail node.	
○ c. Head node	
d. Tail node	~
Your answer is correct.	
The correct answer is:	
Tail node	

Question 7
Incorrect
Mark 0.00 out of 1.00
What would be the time complexity if we wish to delete an element from rear end in single linked list?
○ a. O�
b. None of these
O c. O(1)
\bigcirc d. $O(n^2)$
○ e. O(<i>log n</i>)
Your answer is incorrect.
The correct answer is:
Question 8
Correct
Mark 1.00 out of 1.00
A circular doubly linked list with prev and next represents forward and backward pointers to adjacent elements of the list. Which among the following segments of code deletes the element pointed to by X from the circular double linked list, if it is assumed that X points to neither the first nor last element of the list?

Select one:

 \bigcirc 1. X -> prev -> next = X -> next; X -> next -> prev = X -> prev;

✓ Correct

- 2. X -> prev -> prev = X -> next; X -> next -> next = X -> prev;
- 3. X -> prev -> next = X -> prev; X -> next -> prev = X -> next;
- 4. X -> prev -> prev = X -> prev; X -> next -> next = X -> next;

Correct

The correct answer is: X -> prev -> next = X -> next; X -> next -> prev = X -> prev;

Question 9	
Incorrect	
Mark 0.00 out of 1.00	
A single linked list is declared as follows: struct SLlist { struct SLlist *next; int data; }; Which amodeletes the element pointed to by X from the single linked list? If it is assumed that X points to list and prev pointer points to previous element of X.	
Select one:	
<pre>1. X -> next = prev -> next; free(X);</pre>	× Incorrect
<pre>2. prev -> next = X -> next; free(prev);</pre>	
3. prev -> next = X -> next; free(X);	
<pre>4. X -> next = prev -> next; free(prev);</pre>	
Incorrect	
The correct answer is: prev -> next = X -> next; free(X);	
The correct answer is, prev > hext = X > hext, free(x),	
Question 10	
Incorrect (4.00)	
Mark 0.00 out of 1.00	
Consider an implementation of unsorted circular doubly linked list. Suppose it has its represent the representation, which of the following operation can be implemented in O(1) time? i) Insertion at the end of the linked list iii) Deletion of the front node of the linked list iv) Deletion	rtion at the front of the linked list ii)
Select one:	
○ 1. I and III	
O 2. I and II	
3. I,II,III and IV	
4. I, II and III	× Incorrect
Incorrect	
The correct answer is: I,II,III and IV	

Question 11
Correct Mark 1.00 out of 1.00
Consider an implementation of unsorted single linked list. Suppose it has its representation with a head and a tail pointer (i.e. pointers to the first and last nodes of the linked list). Given the representation, which of the following operation can not be implemented in O(1) time ?
Select one:
 1. Deletion of the front node of the linked list.
2. Insertion at the front of the linked list.
 3. Insertion at the end of the linked list.
4. Deletion of the last node of the linked list.Correct
Correct
The correct answer is: Deletion of the last node of the linked list.
Question 12 Incorrect Mark 0.00 out of 1.00
Mark 0.00 out of 1.00
Consider the following two statements and choose the correct option: I. According to Access strategies Linked List is a linear one. II. According to Storage Linked List is a Non-linear one.
Select one:
1. Both (I) and (II) are false
2. (I) is false but (II) is true
 3. Both (I) and (II) are true
4. (I) is true but (II) is false
Incorrect The correct and the property of the second (II) and (III) and the second of
The correct answer is: Both (I) and (II) are true

Question 13	
Mark 0.00 out of 1.00	
How many null pointer(s) exist in a circular doubly linked list?	
Select one:	
O 1.1	
② 2.2	× Incorrect
O 3.3	
O 4. 0	
Incorrect	
The correct answer is: 0	
The confect district is: 0	
Question 14	
Correct	
Mark 1.00 out of 1.00	
How would you make the middle node of a doubly linked list to the first node of the list? Let assume "x" is the pointer 'prev' store the address of previous node, and 'next' pointer store next node's address and head point	
Select one:	
1. x->next->prev = x->prev x->prev->next = x->next x->next = head head->prev=x	✓ Correct
2. None of these	
3. x->next = head head->prev=x	
4. x->next->prev=x->next x->prev->next = x->prev x->next = head head->prev=x	
Correct	
The correct answer is: x->next->prev = x->prev x->prev->next = x->next x->next = head head->prev=x	

Question 15 Correct
Mark 1.00 out of 1.00
Which among the following segment of code inserts a new node pointed by X to be inserted at the beginning of the doubly linked list? The start pointer points to beginning of the list, prev and next represents backward and forward pointers respectively to adjacent elements of the list.
Select one:
1. X -> prev = X -> next; X -> next = X -> prev;
2. X -> prev -> prev = X -> prev; X -> next -> next;
3. X -> prev = X -> next; X -> next = X -> prev; start=X;
Correct
The correct answer is: X -> next = start; start -> prev=X; start=X;
Question 16 Incorrect
Mark 0.00 out of 1.00
Select one: 1. The linked list data structure provides an efficient way to find kth element in the list 2. The linked list pointers do not provide an efficient way to search an item in the linked list 3. Addition and deletion of an item to/ from the linked list require modification of the existing pointers 4. Linked list pointers always maintain the list in ascending order
Incorrect The correct answer is: The linked list pointers do not provide an efficient way to search an item in the linked list
Question 17 Incorrect
Mark 0.00 out of 1.00
An organization XYZ is out of their storage for keeping the record of its employees and their family. Assuming it has used a linear array of objects, where objects are the instances of the class representing attributes and behavior of the employees', should they switch to linked list data structure. This problem has occurred once in around 10 years, and it is expected to not occur in at least 5 more years. They also need to fetch the data repeatedly for carrying out their tasks. Select one:
○ False
The correct answer is 'False'.

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