7/9/23, 11:34 AM Quiz: Attempt review

Started on	Sunday, 9 July 2023, 6:07 AM	
State	Finished	
Completed on	Sunday, 9 July 2023, 11:33 AM	
Time taken	5 hours 26 mins	
Grade	28.00 out of 30.00 (93.33 %)	
Question 1		
Correct		
Mark 1.00 out of 1.00		
Which of the follow	ing algorithms are used to find the shortest path from a source node to all other nodes in a weighted graph ?	
A. Djikstra's A	Algorithm❤	
○ B. Kruskal Algorithm		
○ C. Prims Algorithm		
D. Adjestin Matrix and List		
Your answer is correct.		
The correct answer	is: Djikstra's Algorithm	
Question 2		
Correct		
Mark 1.00 out of 1.00		
What is a hash tabl	e?	
A. A structure	used for storage	
○ B. A structure	used to implement <u>stack</u> and <u>queue</u>	
C. A structure	that maps values to keys	
D. A structure	D. A structure that maps keys to values ✓	
Your answer is corr	ect.	

The correct answer is: A structure that maps keys to values

Your answer is correct.

The correct answer is: Wastage of memory if the elements inserted in an array are lesser than the allocated size

The correct answer is: overflow

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The correct answer is: Container that stores the elements of similar types

Your answer is correct.

The correct answer is: **Queue**

Which one of the following is the overflow condition if a circular **queue** is implemented using array having size MAX?

- B. front= MAX-1
- C. rear= MAX-1
- D. rear=(rear+1) mod max

Your answer is correct.

The correct answer is: front=(rear+1) mod max

Question 18
Correct
Mark 1.00 out of 1.00
The time complexity of enqueue operation in Queue is
○ A. O�
○ B. O(n logN)
© C. O(1)
○ D. O(lon n)
Your answer is correct.
The correct answer is: O(1)
Question 19
Correct
Mark 1.00 out of 1.00
Which of the following that determines the need for the Circular Queue ?
A. Follows the LIFO principle
B. Follows the FIFO principle
C. Avoid wastage of memory ✓
○ D. Access the Queue using priority
Your answer is correct.
The correct answer is: Avoid wastage of memory
Question 20
Incorrect
Mark 0.00 out of 1.00
Which one of the following is the correct way to increment the rear end in a circular queue ?
which one of the following is the correct way to increment the real end in a circular <u>queue</u> ?
○ A. rear =rear+1
○ B. rear = front
○ C. (rear % max) + 1
□ D. (rear+1) % max ★
Your answer is incorrect.
The correct answer is: (rear % max) + 1

Which one of the following is not the application of the **Queue** data structure?

- A. Data is transferred asynchronously
- B. Load balancing
- C. Balancing of symbols
- D. Resource shared between various systems

Your answer is correct.

The correct answer is: Balancing of symbols

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The correct answer is: Randomized traversal

Which of the following represents the Postorder Traversal of a Binary <u>Tree</u>?

- A. Root -> Left ->Right
- B. Left -> Root -> Right
- O. Root -> Right -> Left
- D. Left ->Right -> Root

Your answer is correct.

The correct answer is: Left -> Right -> Root

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Question		
Question	30	
Correct		
Mark 1.00 out of 1.00		
In a g	raph of n nodes and n edges, how many cycles will be present?	
_ A	v. Depends on nodes	
	a. Depends on nodes 3. Exactly N	

Your answer is correct.

The correct answer is: Exactly 1

O. Depends on the **graph**