26/25, 4:08	PM QUIZ_26-03-2025	
	Network connection lost. (Autosave failed).	
Question 1	Make a note of any responses entered on this page in the last few minutes, then try to re-connect.	
Not yet answ	Once connection has been re-established, your responses should be saved and this message will disappear.	
Marked out	of 1.00	
	lata structure allows both LIFO and FIFO operations efficiently? HashMap	
	Queue	
	Deque Deque	
□ d.		
Question 2		
Answer save		
Marked out	of 1.00	
Which s	tatement about Java constructor overloading is correct?	
□ a.	A constructor can return a value	
□ b.	Java does not allow constructor overloading	
□ c.	Two constructors in the same class cannot have the same number of parameters	
✓ d.	A constructor can call another constructor using this()	

${\tt Question}~{\bf 3}$

Not yet answered

Marked out of 1.00

Identify the error in this lambda expression usage:

import java.util.function.Predicate;

```
public class Test {
public static void main(String[] args) {
Predicate < String > p = (String s) -> { return s.length() > 3; };
System.out.println(p.test("Java"));
 \square a. Runtime exception
 \ \square b. Compilation error
```

- ✓ c. No error
- ☐ d. Infinite loop

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Question 4 Not yet answere	Network connection lost. (Autosave failed).
Marked out of 1	Make a note of any responses entered on this page in the last few minutes, then try to re-connect.
	Once connection has been re-established, your responses should be saved and this message will disappear.
Which of the	e following is TRUE about lambda expressions in Java?
☐ a. The	y must be inside a method
☐ b. The	y must have a return type
✓ c. The	y can be assigned to a functional interface reference
☐ d. The	y can access instance variables but not local variables
Question 5	
Answer saved	
Marked out of 1.0	
What is the	best-case time complexity of QuickSort?
☐ a. O(ı	1)
☐ b. O(ld	og n)
🗸 c. O(n	log n)
☐ d. O(n	2)
Question 6	
Answer saved	
Marked out of 1.0	
AA/L * - L - L	
wnich trave	rsal method will print the values of a Binary Search Tree in sorted order?
☐ a. Pos	torder
✓ b. Ino	rder
□ c. Pre	order
☐ d. Lev	el Order

Question 7 Answer save	d
Marked out	of 1 Make a note of any responses entered on this page in the last few minutes, then try to re-connect.
	Once connection has been re-established, your responses should be saved and this message will disappear.
What w	Il be the output of this SQL query?
SELECT	name FROM students
WHERE	id NOT IN (SELECT student_id FROM grades);
☐ a.	All student names
	Names of students who have at least one grade
_	
✓ c.	Names of students who do not have a grade
☐ d.	Error in query
Question 8	
Not yet answ	
Marked out	of 1.00
Which	of the following is a valid use of the Predicate functional interface?
☐ a.	Predicate $p = n \rightarrow \text{return } n > 0$;
□ b.	Predicate < Integer > p = (n) -> { return n > 0 }
✓ c.	Predicate < Integer > $p = (n) - n > 0$;
□ d.	Predicate < Integer > $p = (int n) - return n > 0;$
Question 9	
Answer save	
Marked out	of 1.00
What do	pes the following SQL query do?
DELETE	FROM employees
WHERE	id IN (SELECT id FROM employees WHERE salary < 30000);
□ a.	Deletes all employees
□ b.	Throws an error
☐ c.	Selects employees with salary less than 30,000 but does not delete
✓ d.	Deletes employees earning less than 30,000

Question 10 Network connection lost. (Autosave failed).		
Marked out of 1 Make a note of any responses entered on this page in the last few minutes, then try to re-connect.		
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What does the following SQL query do?		
SELECT department, AVG(salary)		
FROM employees		
GROUP BY department		
HAVING AVG(salary) > 50000;		
a. Filters departments before grouping		
✓ b. Displays only departments where the average salary is greater than 50,000		
☐ c. Syntax error		
\Box d. Selects all departments and filters those with salary greater than 50,000		
Question 11		
Not yet answered		
Marked out of 1.00		
Which of the following operations has the same time complexity in both Binary Search Tree (BST) and Hash Table?		
Which of the following operations has the same time complexity in both Binary Search Tree (BST) and Hash Table? a. None of the above		
☑ a. None of the above		
☑ a. None of the above☐ b. Search		
☑ a. None of the above☐ b. Search☐ c. Delete		
☑ a. None of the above ☐ b. Search ☐ c. Delete ☐ d. Insert		
☑ a. None of the above☐ b. Search☐ c. Delete		
 ☑ a. None of the above ☐ b. Search ☐ c. Delete ☐ d. Insert Question 12		
■ a. None of the above □ b. Search □ c. Delete □ d. Insert Question 12 Not yet answered		
■ a. None of the above □ b. Search □ c. Delete □ d. Insert Question 12 Not yet answered		
 a. None of the above b. Search c. Delete d. Insert Question 12 Not yet answered Marked out of 1.00 Which of the following is the most efficient data structure for priority queue implementation?		
a. None of the above b. Search c. Delete d. Insert Question 12 Not yet answered Marked out of 1.00 Which of the following is the most efficient data structure for priority queue implementation? a. BST		
② a. None of the above □ b. Search □ c. Delete □ d. Insert Question 12 Not yet answered Marked out of 1.00 Which of the following is the most efficient data structure for priority queue implementation? □ a. BST □ b. Binary Heap		
a. None of the above b. Search c. Delete d. Insert Question 12 Not yet answered Marked out of 1.00 Which of the following is the most efficient data structure for priority queue implementation? a. BST		

	Network connection lost. (Autosave failed).
Not yet answ Marked out o	
	Once connection has been re-established, your responses should be saved and this message will disappear.
Which S	QL query finds the second highest salary from an employees table?
	All of the above
	SELECT salary FROM employees ORDER BY salary DESC LIMIT 1,1;
	SELECT salary FROM (SELECT salary, RANK() OVER (ORDER BY salary DESC) r FROM employees) WHERE $r = 2$;
☐ d	SELECT MAX(salary) FROM employees WHERE salary < (SELECT MAX(salary) FROM employees);
Question 14	
Not yet answ	
Marked out o	T 1.00
What wil	be the output of the following SQL query?
Wildt Wil	be the output of the following size query.
SELECT C	OUNT(*), COUNT(column_name) FROM employees;
✓ a. (COUNT(*) includes NULL values, while COUNT(column_name) ignores them
	Syntax error
	COUNT(*) ignores NULL values, while COUNT(column_name) includes them
	Both return the same count
41	
Question 15 Not yet answ	
Marked out o	
What wil	be the output of the following code?
import ja	va.util.function.Predicate;
import ja public cla	nss Test {
import ja public cla public sta	ass Test { atic void main(String[] args) {
import ja public cla public sta Predica	ass Test { atic void main(String[] args) { te <integer> isEven = x -> x % 2 == 0;</integer>
import ja public cla public sta Predica	ass Test { atic void main(String[] args) {
import ja public cla public sta Predica	ass Test { atic void main(String[] args) { te <integer> isEven = x -> x % 2 == 0;</integer>
import ja public cla public sta Predica	ass Test { atic void main(String[] args) { te <integer> isEven = x -> x % 2 == 0;</integer>
import ja public cla public sta Predica System }	ass Test { atic void main(String[] args) { te <integer> isEven = x -> x % 2 == 0; .out.println(isEven.test(7));</integer>
import ja public cla public sta Predica System }	ass Test { atic void main(String[] args) { te <integer> isEven = x -> x % 2 == 0; .out.println(isEven.test(7)); Compilation Error</integer>
import ja public cla public sta Predica System } a. (ass Test { atic void main(String[] args) { te <integer> isEven = x -> x % 2 == 0; .out.println(isEven.test(7));</integer>

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