Started on	Wednesday, 26 March 2025, 3:29 PM
State	Finished
Completed on	•
Time taken	
Marks	
Grade	100.00 out of 100.00
Question 1	
Complete	
Mark 1.00 out of 1.00	
Identify the error in t	his lambda expression usage:
import java.util.funct	ion.Predicate;
public class Test {	
public static void ma	in(String[] args) {
Predicate < String > p	= (String s) -> { return s.length() > 3; };
System.out.println(p.	test("Java"));
}	
}	
,	
a. Runtime exc	reption
b. Infinite loop	
c. Compilation	error
d. No error	
2	
Question 2 Complete	
Mark 1.00 out of 1.00	
What will be the out	put of the following SQL query?
SELECT COUNT(*), Co	OUNT(column_name) FROM employees;
a. Both return	the same count
b. COUNT(*) ir	ocludes NULL values, while COUNT(column_name) ignores them
c. Syntax error	
d. COUNT(*) ig	nores NULL values, while COUNT(column_name) includes them

Question 3	
Complete	
Mark 1.00 out of 1.00	
Which of the following is TRUE about lambda expressions in Java?	
a. They must be inside a method	
b. They can be assigned to a functional interface reference	
C. They must have a return type	
d. They can access instance variables but not local variables	
Question 4	
Complete	
Mark 1.00 out of 1.00	
What will be the output of this SQL query?	
SELECT name FROM students	
WHERE id NOT IN (SELECT student_id FROM grades);	
a. Names of students who have at least one grade	
☐ b. All student names	
c. Error in query	
d. Names of students who do not have a grade	
Question 5	
Complete	
Mark 1.00 out of 1.00	
Which SQL query finds the second highest salary from an employees table?	
a. All of the above	
□ b. SELECT salary FROM employees ORDER BY salary DESC LIMIT 1,1;	
c. SELECT MAX(salary) FROM employees WHERE salary < (SELECT MAX(salary) FROM employees);	
\Box d. SELECT salary FROM (SELECT salary, RANK() OVER (ORDER BY salary DESC) r FROM employees) WHERE r = 2;	

Question 6		
Complete		
Mark 1.00 out	of 1.00	
What doe	es the following SQL query do?	
SELECT de	epartment, AVG(salary)	
FROM em	nployees	
GROUP BY department		
HAVING A	AVG(salary) > 50000;	
☑ a. [Displays only departments where the average salary is greater than 50,000	
☐ b. F	Filters departments before grouping	
_ c. S	Selects all departments and filters those with salary greater than 50,000	
d. S	Syntax error	
Question 7		
Complete		
Mark 1.00 out	of 1.00	
Which tra	eversal method will print the values of a Binary Search Tree in sorted order?	
a. L	evel Order	
☐ b. F	Preorder	
C. F	Postorder	
✓ d. I	norder	
Question 8		
Complete		
Mark 1.00 out	of 1.00	
Which of the following operations has the same time complexity in both Binary Search Tree (BST) and Hash Table?		
a. [Delete	
✓ b. N	None of the above	
_ c. S	Search	
d. I	nsert	

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Question 9	
Complete	
Mark 1.00 o	ut of 1.00
Which	of the following is a valid use of the Predicate functional interface?
a.	Predicate < Integer > $p = (int n) \rightarrow return n > 0;$
✓ b.	Predicate < Integer > $p = (n) - > n > 0$;
c.	Predicate < Integer > $p = (n) \rightarrow \{ return \ n > 0 \}$
d.	Predicate $p = n \rightarrow return n > 0$;
Question 1	0
Complete	
Mark 1.00 o	ut of 1.00
Which s	tatement about Java constructor overloading is correct?
a.	A constructor can return a value
□ b.	Two constructors in the same class cannot have the same number of parameters
□ c.	Java does not allow constructor overloading
✓ d.	A constructor can call another constructor using this()
Question 1	1
Complete	
Mark 1.00 o	ut of 1.00
Which o	lata structure allows both LIFO and FIFO operations efficiently?
a.	Stack
b.	HashMap
✓ c.	Deque
□ d.	Queue

Question 12 Complete Mark 1.00 out of 1.00
Which of the following is the most efficient data structure for priority queue implementation?
a. Linked List
□ b. Stack
□ c. BST
☑ d. Binary Heap
Question 13 Complete
Mark 1.00 out of 1.00
What does the following SQL query do?
DELETE FROM employees
WHERE id IN (SELECT id FROM employees WHERE salary < 30000);
a. Selects employees with salary less than 30,000 but does not delete
☑ b. Deletes employees earning less than 30,000
c. Throws an error
d. Deletes all employees
Question 14
Complete
Mark 1.00 out of 1.00
What is the best-case time complexity of QuickSort?
\Box a. $O(n^2)$
□ b. O(n)
☑ c. O(n log n)
d. O(log n)

Question 15 Complete Mark 1.00 out of 1.00

What will be the output of the following code?

```
import java.util.function.Predicate;
public class Test {
public static void main(String[] args) {
   Predicate<Integer> isEven = x -> x % 2 == 0;
   System.out.println(isEven.test(7));
}
```

- a. Runtime Exception
- b. True
- C. Compilation Error
- d. False