Started on	Tuesday, 1 July 2025, 12:15 PM
State	Finished
Completed on	Tuesday, 1 July 2025, 12:34 PM
Time taken	19 mins 27 secs
Marks	41.00/50.00
Grade	82.00 out of 100.00

```
Question 1
Complete
Mark 1.00 out of 1.00
```

```
What will be the result of the following code?

public class Test {
    public static void main(String[] args) {
        try {
            int x = 5 / 0;
        } catch (ArithmeticException e) {
                System.out.println("AE");
        } catch (Exception e) {
                System.out.println("E");
        }
    }
}

a. E

b. Compilation Error

c. Runtime Exception

d. AE
```

```
Question 2
Complete
Mark 1.00 out of 1.00
```

```
What is the output of this program?
interface A {
  default void show() {
    System.out.println("A");
  }
}
class B implements A {
  public void show() {
     System.out.println("B");
  }
}
public class Test {
  public static void main(String[] args) {
    A obj = new B();
    obj.show();
  }
}
 a. B
 b. A B
 O c. A
 d. Compilation error
```

```
Question 3
Complete
Mark 0.00 out of 1.00
```

```
What is the result of this code?

let foo = {

bar: function() {

return this;

}

};

let fn = foo.bar;

console.log(fn());

a. undefined

b. foo

c. window or global

d. Error
```

Quiz: Attempt review

```
Question 4
Complete
Mark 1.00 out of 1.00
```

```
What does the following output?
abstract class A {
  abstract void display();
  static void print() {
     System.out.println("Static in A");
  }
}
class B extends A {
  void display() {
     System.out.println("B");
  }
}
public class Test {
  public static void main(String[] args) {
    A.print();
     new B().display();
  }
}
 oa. Static in A
 Ob. B Static in A
 oc. Static in A B
 Od. Compilation error
```

Question 5 Complete

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Mark 0.00 out of 1.00

Consider two tables: orders(id, user_id) and users(id, name). Which query lists all users with or without orders?

- oa. LEFT JOIN
- b. RIGHT JOIN
- o. INNER JOIN
- Od. CROSS JOIN

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Question 6	
Complete	
Mark 1.00 out of 1.00	
Mark 1.00 dat of 1.00	
What does the following query return?	
3 1 7	
SELECT COUNT(*) FROM employees WHERE hire_date BETWEEN '2023-	01-01' AND '2023-12-31';
a. Total number of employees	
 b. Total number of departments 	
c. Number of employees hired in 2023	
○ d. Syntax error	
<u>_</u>	
Question 7	
Complete	
Mark 1.00 out of 1.00	
What will this query return?	
CFLECT	
SELECT name,	
CASE	
WHEN salary > 50000 THEN 'High'	
WHEN salary BETWEEN 30000 AND 50000 THEN 'Medium'	
ELSE 'Low'	
END AS salary_band	
FROM employees;	
Coton of colony laws	
a. Categorized salary levels	
b. Only salary column	
c. Only High salaries	
od. Error due to ELSE	
Question 8	
Complete	
·	
Mark 1.00 out of 1.00	
What is the output of the following string query?	
Time is the earparer are renorming saming query.	
SELECT LENGTH(TRIM(' Hello SQL '));	
o a. 10	
b. 9	
oc. 12	
O d. 11	
∪ u. 11	

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Question 9
Complete
Mark 0.00 out of 1.00
What does this query return?
SELECT DATE_FORMAT(order_date, '%Y-%m') AS month, COUNT(*)
FROM orders
GROUP BY month;
○ a. Total orders
b. Orders grouped by year and month
c. Syntax error
Od. Orders by user
Question 10
Complete
Mark 1.00 out of 1.00
How does useContext improve performance over prop drilling?
a. By replacing all props with global variables
b. By preventing unnecessary re-renders
c. By directly providing access to values without passing them down each level
Od. By automatically memoizing values
Question 11
Complete
Mark 1.00 out of 1.00
In RBAC, how are permissions typically determined?
a. Based on user login count
 b. Based on assigned roles and the permissions those roles allow
C. Based on route paths
O d. Based on user input
40
Question 12
Complete
Mark 1.00 out of 1.00
What is the output of the following code?
for (var $i = 0$; $i < 3$; $i++$) {
setTimeout(() => console.log(i), 100);
}

a. 123b. 333c. 000d. 012

7/

1/25, 12:37 PM	Quiz: Attempt review
Question 13	
Complete	
Mark 0.00 out of 1.00	
What will this code log?	
what will this code log:	
let a = {};	
let b = a;	
a = null;	
console.log(b);	
○ a. null	
b. undefined	
○ c. {}	
d. ReferenceError	
u. ReferenceLifor	
Question 14	
Complete	
Mark 1.00 out of 1.00	
What will be the output?	
console.log(typeof null);	
3.71	
oa. "null"	
○ b. "undefined"	
o c. "object"	
Od. "null object"	
Question 15	
Complete	
Mark 1.00 out of 1.00	
What does this code output?	
(async function() {	
return await 10; })().then(console.log);	
ny, aren (console.log),	
oa. undefined	
O b. Error	
c. 10	
Od. Promise { 10 }	

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Question 16	
Complete	
Mark 1.00 out of 1.00	
M/L-4 d Al-:- 12	
What does this log?	
console.log(['hello']);	
○ a. undefined	
Ob. "hello"	
c. TypeError	
d. ['h', 'e', 'l', 'l', 'o']	
47	
Question 17 Complete	
Mark 1.00 out of 1.00	
Mark 1.00 Out of 1.00	
What happens if obj is a new object on every render and used in th	e useEffect dependency array?
<pre>useEffect(() => { console.log("effect ran");</pre>	
}, [obj]);	
a. It runs once only	
b. It throws error	
c. It runs on every render	
O d. useEffect never runs	
40	
Question 18 Complete	
Mark 1.00 out of 1.00	
Mark 1.00 Out of 1.00	
What is the output when useEffect sets count using setCount(count	: + 1) with an empty dependency array?
<pre>const [count, setCount] = useState(0);</pre>	
useEffect(() => {	
<pre>setCount(count + 1);</pre>	
}, []);	
a. Renders infinitely	
b. Skips the update	
c. Throws error	
d. Sets count to 1 once	
G. Sold Count to 1 Office	

Question 19
Complete Mark 1.00 out of 1.00
What is the correct way to navigate programmatically using useNavigate in React Router v6? const navigate = useNavigate(); a. window.location = '/home' b. navigate.push('/home') c. history.push('/home') d. navigate('/home')
Question 20 Complete Mark 1.00 out of 1.00
What does a JWT token contain in a secure application?
 a. Plain text passwords b. Only the username c. Encrypted credentials d. Signed user claims like userID, roles
Question 21 Complete Mark 1.00 out of 1.00
What does useMemo primarily help with in React?
 a. To memoize components for faster rendering b. To fetch data from APIs c. To schedule updates after rendering d. To cache expensive computations between renders
Question 22
Complete
Mark 1.00 out of 1.00
What happens if run() is called directly instead of using start() on a Thread?
a. New thread starts
b. Thread is terminated
c. Code runs in current threadd. Error is thrown

Question 23 Complete
Mark 1.00 out of 1.00
What happens if two threads access a synchronized method?
a. Both execute concurrently
b. They create deadlockc. One waits until the other finishes
d. They throw exception
d. They throw exception
Question 24
Complete
Mark 1.00 out of 1.00
What happens when a thread is started twice using start()?
a. Runs normally
○ b. Creates duplicate thread
○ c. Stops the thread
d. Throws IllegalThreadStateException
Question 25
Complete
Complete
Complete Mark 1.00 out of 1.00 What happens when an exception is not caught in a method?
Complete Mark 1.00 out of 1.00 What happens when an exception is not caught in a method? a. Compilation error occurs
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Complete Mark 1.00 out of 1.00 What happens when an exception is not caught in a method? a. Compilation error occurs b. The program continues normally c. JVM silently handles it d. Exception is passed to the caller method Question 26 Complete Mark 0.00 out of 1.00 What happens when an exception is thrown in a thread's run() method? a. The thread restarts

Question 27 Complete
Mark 1.00 out of 1.00
What is a potential issue with using axios.get in useEffect without dependencies?
a. It may refetch on every render causing an infinite loop
b. Nothing, it's safe
c. It will fetch once
O d. The component won't render
Question 28
Complete
Mark 1.00 out of 1.00
What is the difference between == and === in JavaScript?
a. == compares values and types; === compares only values
○ b. There is no difference
○ c. === is slower
d. == does type coercion; === does not
Question 29
Complete
Mark 1.00 out of 1.00
What is true about abstract classes?
a. They cannot have static methods
b. They can be instantiated using new
c. They must contain only abstract methods
 d. They can have both abstract and concrete methods
Question 30
Complete
Mark 1.00 out of 1.00
What is true about finally block?
a. Never executes if there is an exception
b. Always executes even after return
c. Executes only when exception occurs
d. Executes only when catch is skipped

Question 31 Complete Mark 1.00 out of 1.00
What's the main difference between fetch and axios in terms of error handling?
 a. axios throws for HTTP errors; fetch does not b. Both handle errors the same way c. fetch throws errors on HTTP errors automatically d. axios requires manual error parsing
Question 32 Complete Mark 1.00 out of 1.00
When should you prefer useReducer over useState?
 a. When state updates depend on previous state or are complex b. When you need performance optimizations c. When managing global state d. Always, since it's newer
Question 33 Complete Mark 1.00 out of 1.00
Which constraint enforces the relationship between two tables?
 a. NOT NULL b. UNIQUE c. FOREIGN KEY d. CHECK
Question 34 Complete Mark 1.00 out of 1.00
Which interface must be implemented to create a thread?
 a. Runnable b. Callable c. Threadable d. Executor

Question 35 Complete
Mark 1.00 out of 1.00
Which is a feature of an abstract class?
a. Can have final methods
○ b. Must have default constructor
○ c. Cannot implement interfaces
O d. Cannot extend another class
Question 36 Complete
Mark 1.00 out of 1.00
Which is true about interfaces in Java 8+?
a. Interfaces must have only abstract methods
b. Interfaces can have private static methods
c. Interfaces can have default and static methods
○ d. Interfaces can have constructors
a .: 27
Question 37 Complete
Question 37 Complete Mark 1.00 out of 1.00
Complete
Complete
Complete Mark 1.00 out of 1.00 Which JOIN returns all rows from the left table and matching rows from the right?
Complete Mark 1.00 out of 1.00 Which JOIN returns all rows from the left table and matching rows from the right? a. LEFT JOIN
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Complete Mark 1.00 out of 1.00 Which JOIN returns all rows from the left table and matching rows from the right? a. LEFT JOIN b. FULL JOIN c. RIGHT JOIN
Complete Mark 1.00 out of 1.00 Which JOIN returns all rows from the left table and matching rows from the right? a. LEFT JOIN b. FULL JOIN c. RIGHT JOIN d. INNER JOIN
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Question 39 Complete
Mark 1.00 out of 1.00
Which of the following is a correlated subquery?
a. Subquery using values from outer query row-by-row
b. Subquery with only constants
c. Subquery that runs only once
O d. Subquery with GROUP BY
Question 40
Complete
Mark 0.00 out of 1.00
Which of the following is correct about Thread.sleep()?
a. Pauses thread and releases lock
○ b. Does not release the lock
c. Releases the lock on the object
d. Throws checked exception at runtime
Question 41
Complete
Mark 1.00 out of 1.00
Which of the following is TRUE about a PRIMARY KEY constraint?
a. A table can have multiple primary keys
 b. Combines uniqueness and non-null constraints
c. Allows duplicates
d. Allows nulls
Question 42
Complete
Mark 1.00 out of 1.00
Which of the following is true about JavaScript closures?
a. They are only used in classes
 b. They are functions with private variables
c. They cannot access outer scope variables
d. They only work with var
On They only work with var

Question 43	
Complete	
Mark 0.00 out of 1.00	
Which of the following methods is defined in the Thread class?	
a. start()	
b. execute()	
c. submit()	
od. invoke()	
Question 44	
Complete	
Mark 0.00 out of 1.00	
Which of the following statements about 'let' and 'var' is TRUE?	
a. Both are block scoped	
b. var cannot be re-declared in the same scope	
 c. var is block scoped while let is function scoped 	
 d. let declarations are hoisted but not initialized 	
Question 45	
Question 45	
Question 45 Complete	
Complete	
Complete Mark 0.00 out of 1.00	
Complete	
Complete Mark 0.00 out of 1.00	
Complete Mark 0.00 out of 1.00 Which of the following will compile and run without error?	
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Question 47 Complete
Mark 1.00 out of 1.00
Which of these is not a checked exception?
a. ArithmeticException b. IOF reaction
b. IOExceptionc. SQLException
d. FileNotFoundException
d. Hieroti odnazzecption
Question 48
Complete
Mark 1.00 out of 1.00
Which option correctly describes JavaScript's event loop?
a. It blocks until all I/O is done
○ b. It handles async code before sync code
c. It runs only setInterval and setTimeout
d. It executes synchronous code, then processes the callback queue
Question 49
Complete
Mark 1.00 out of 1.00
Which SQL clause is used with GROUP BY to filter aggregated results?
Which SQL clause is used with GROUP BY to filter aggregated results? a. LIMIT b. HAVING
○ a. LIMIT
a. LIMITb. HAVING
a. LIMITb. HAVINGc. ORDER BY
 a. LIMIT b. HAVING c. ORDER BY d. WHERE
 a. LIMIT b. HAVING c. ORDER BY d. WHERE
 a. LIMIT b. HAVING c. ORDER BY d. WHERE Question 50 Complete
 a. LIMIT b. HAVING c. ORDER BY d. WHERE
 a. LIMIT b. HAVING c. ORDER BY d. WHERE Question 50 Complete
 a. LIMIT b. HAVING c. ORDER BY d. WHERE Question 50 Complete
 a. LIMIT b. HAVING c. ORDER BY d. WHERE Question 50 Complete Mark 1.00 out of 1.00
 a. LIMIT b. HAVING c. ORDER BY d. WHERE Question 50 Complete Mark 1.00 out of 1.00 Which statement is true about Callable?
 a. LIMIT b. HAVING c. ORDER BY d. WHERE Question 50 Complete Mark 1.00 out of 1.00 Which statement is true about Callable? a. It returns a value and can throw exceptions