

<b>Started on</b>	Monday, 9 June 2025, 2:17 PM
<b>State</b>	Finished
<b>Completed on</b>	Monday, 9 June 2025, 2:25 PM
<b>Time taken</b>	8 mins
<b>Marks</b>	20.50/25.00
<b>Grade</b>	<b>82.00</b> out of 100.00

**Question 1**

Complete

Mark 0.50 out of 1.00

What is the correct way to declare a variable in JavaScript that can be reassigned?

- ☒ a. `var myVar = 5;`
- ☐ b. None
- ☐ c. `let myVar = 5;`
- ☐ d. `const myVar = 5;`

**Question 2**

Complete

Mark 1.00 out of 1.00

Which keyword is used to create an object in Java?

- ☐ a. `class`
- ☒ b. `new`
- ☐ c. `create`
- ☐ d. `object`

**Question 3**

Complete

Mark 1.00 out of 1.00

What happens if exception is thrown in finally block?

- ☐ a. Compile-time error
- ☐ b. finally block never throws exception
- ☒ c. Original exception is suppressed
- ☐ d. Both exceptions are printed

**Question 4**

Complete

Mark 1.00 out of 1.00

Which problem is recursion NOT well-suited for?

- ☐ a. Problems with recursive mathematical definitions
- ☒ b. Problems requiring sequential processing of large datasets
- ☐ c. Tree traversals
- ☐ d. Fibonacci sequence

**Question 5**

Complete

Mark 1.00 out of 1.00

What is the default value of an instance variable of type int?

- ☐ a. null
- ☐ b. 1
- ☒ c. 0
- ☐ d. undefined

**Question 6**

Complete

Mark 1.00 out of 1.00

What is tail recursion?

- ☐ a. Recursion with multiple recursive calls
- ☐ b. Recursion with multiple base cases
- ☒ c. Recursion where the recursive call is the last operation in the function
- ☐ d. Recursion that never terminates

**Question 7**

Complete

Mark 1.00 out of 1.00

What will be the output of the following code?

```
console.log(typeof null);
```

- ☐ a. "string"
- ☒ b. "object"
- ☐ c. "null"
- ☐ d. "undefined"

**Question 8**

Complete

Mark 0.00 out of 1.00

What is React primarily used for?

- ☐ a. Database management
- ☒ b. Server-side programming
- ☐ c. Mobile app development only
- ☐ d. Building user interfaces

**Question 9**

Complete

Mark 0.00 out of 1.00

What is the correct way to update state based on previous state?

```
const [count, setCount] = useState(0);
```

- ☐ a. None
- ☐ b. `count = count + 1;`
- ☒ c. `setCount(count + 1);`
- ☐ d. `setCount(prevCount => prevCount + 1);`

**Question 10**

Complete

Mark 1.00 out of 1.00

What is a correlated subquery?

- ☐ a. A subquery that returns multiple rows
- ☒ b. A subquery that references columns from the outer query
- ☐ c. A subquery that runs independently
- ☐ d. A subquery that joins multiple tables

**Question 11**

Complete

Mark 1.00 out of 1.00

What is method overloading in Java?

- ☐ a. Making methods run faster
- ☒ b. Having multiple methods with same name but different parameters
- ☐ c. Having methods with same name in parent and child classes
- ☐ d. Using methods from other classes

**Question 12**

Complete

Mark 1.00 out of 1.00

What is the base case in recursion?

- ☐ a. The return value of the function
- ☐ b. The most complex part of the recursive function
- ☐ c. The first call to the recursive function
- ☒ d. The condition that stops the recursion

**Question 13**

Complete

Mark 1.00 out of 1.00

Which access modifier provides the most restrictive access?

- ☐ a. default (no modifier)
- ☐ b. public
- ☒ c. private
- ☐ d. protected

**Question 14**

Complete

Mark 1.00 out of 1.00

Which hook is used to manage state in functional components?

- ☐ a. useContext
- ☒ b. useState
- ☐ c. useReducer
- ☐ d. useEffect

**Question 15**

Complete

Mark 0.00 out of 1.00

What is the purpose of the this keyword in JavaScript?

- ☐ a. Refers to the global object always
- ☐ b. Refers to the parent function
- ☐ c. Refers to the object it belongs to
- ☒ d. Refers to the current function

**Question 16**

Complete

Mark 1.00 out of 1.00

What is the output of the following code?

```
try {  
    throw new Exception("Check");  
} catch (RuntimeException e) {  
    System.out.println("Runtime");  
} catch (Exception e) {  
    System.out.println("Exception");  
}
```

- ☐ a. Compilation error
- ☐ b. Runtime
- ☒ c. Exception
- ☐ d. Runtime error

**Question 17**

Complete

Mark 1.00 out of 1.00

What is the main disadvantage of recursion?

- ☒ a. It can lead to stack overflow for deep recursion
- ☐ b. It can't be used with loops
- ☐ c. It's difficult to understand
- ☐ d. It's slower than iteration

**Question 18**

Complete

Mark 1.00 out of 1.00

What is the output?

```
try {  
    int a = 5 / 0;  
} catch (Exception e) {  
    System.out.print("Catch ");  
} finally {  
    System.out.print("Finally");  
}
```

- ☒ a. Catch Finally
- ☐ b. Finally
- ☐ c. Catch
- ☐ d. Runtime Error

**Question 19**

Complete

Mark 1.00 out of 1.00

What is the output of:

```
setTimeout(() => console.log("A"), 0);  
console.log("B");
```

- ☐ a. A, B
- ☐ b. A
- ☒ c. B, A
- ☐ d. B

**Question 20**

Complete

Mark 1.00 out of 1.00

Which of these is NOT a valid method signature in Java?

- ☐ a. `private String myMethod()`
- ☒ b. `void 2myMethod()`
- ☐ c. `public void myMethod(int x)`
- ☐ d. `protected int myMethod(double d, String s)`

**Question 21**

Complete

Mark 1.00 out of 1.00

When would you use `useReducer` instead of `useState`?

- ☐ a. When you need to optimize performance
- ☐ b. When working with forms
- ☒ c. When state logic becomes complex with multiple sub-values
- ☐ d. When you need to manage simple state

**Question 22**

Complete

Mark 1.00 out of 1.00

What is React context used for?

- ☐ a. Managing form state
- ☐ b. Handling HTTP requests
- ☐ c. Styling components
- ☒ d. Sharing data between components without prop drilling

**Question 23**

Complete

Mark 1.00 out of 1.00

Which of the following is a checked exception?

- ☐ a. `ArithmeticException`
- ☐ b. `NullPointerException`
- ☐ c. `IllegalArgumentException`
- ☒ d. `FileNotFoundException`

**Question 24**

Complete

Mark 0.00 out of 1.00

Which operator is used with single-row subqueries?

- ☐ a. IN
- ☐ b. EXISTS
- ☒ c. ALL
- ☐ d. =

**Question 25**

Complete

Mark 1.00 out of 1.00

Which of these is NOT a JavaScript falsy value?

- ☐ a. ""
- ☐ b. undefined
- ☐ c. 0
- ☒ d. "false"