

Started on	Monday, 9 June 2025, 2:13 PM
State	Finished
Completed on	Monday, 9 June 2025, 2:28 PM
Time taken	14 mins 7 secs
Marks	22.00/25.00
Grade	88.00 out of 100.00

Question 1

Complete

Mark 1.00 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 2

Complete

Mark 1.00 out of 1.00

Which access modifier provides the most restrictive access?

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

Question 3

Complete

Mark 1.00 out of 1.00

What is tail recursion?

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

Question 4

Complete

Mark 1.00 out of 1.00

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

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

Question 5

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

Question 6

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

Question 7

Complete

Mark 1.00 out of 1.00

What is method overloading in Java?

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

Question 8

Complete

Mark 1.00 out of 1.00

What is the base case in recursion?

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

Question 9

Complete

Mark 1.00 out of 1.00

Which operator is used with single-row subqueries?

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

Question 10

Complete

Mark 1.00 out of 1.00

What happens if exception is thrown in finally block?

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

Question 11

Complete

Mark 1.00 out of 1.00

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

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

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

Question 12

Complete

Mark 1.00 out of 1.00

Which problem is recursion NOT well-suited for?

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

Question 13

Complete

Mark 1.00 out of 1.00

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

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

Question 14

Complete

Mark 1.00 out of 1.00

What is React context used for?

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

Question 15

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 16

Complete

Mark 1.00 out of 1.00

Which hook is used to manage state in functional components?

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

Question 17

Complete

Mark 0.00 out of 1.00

What will be the output of the following code?

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

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

Question 18

Complete

Mark 0.00 out of 1.00

What is a correlated subquery?

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

Question 19

Complete

Mark 1.00 out of 1.00

Which of the following is a checked exception?

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

Question 20

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 slower than iteration
- ☐ d. It's difficult to understand

Question 21

Complete

Mark 1.00 out of 1.00

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

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

Question 22

Complete

Mark 1.00 out of 1.00

What is the output of:

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

```
console.log("B");
```

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

Question 23

Complete

Mark 0.00 out of 1.00

Which of these is NOT a JavaScript falsy value?

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

Question 24

Complete

Mark 1.00 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 current function
- ☐ c. Refers to the parent function
- ☒ d. Refers to the object it belongs to

Question 25

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. Runtime error
- ☒ d. Exception