### **1.** What will be the output of the following code?

**var** a = 10;  
**if** (**true**) {  
 **var** a = 20;  
}  
console.log(a);

* 1. 10
  2. 20
  3. undefined
  4. Error

ans: B) 20

### **2.** What will be the output of the following code?

**let** a = 10;  
**if** (**true**) {  
 **let** a = 20;  
}  
console.log(a);

* 1. 10
  2. 20
  3. undefined
  4. Error

ans: A) 10

### **3.** In the following code, which scope does the variable x belong to?

**function** foo() {  
 **var** x = 100;  
 **if** (**true**) {  
 **let** y = 200;  
 }  
}

* 1. Block scope
  2. Function scope
  3. Global scope
  4. Undefined

ans: B) Function scope

### **4.** What will be the output of the following code?

**const** a = 5;  
{  
 **const** a = 10;  
 console.log(a);  
}  
console.log(a);

* 1. 5, 5
  2. 10, 5
  3. 10, 10
  4. 5, 10

ans: B) 10, 5

### **5.** What will be the output of the following code?

**var** x = 1;  
**function** test() {  
 **var** x = 2;  
 **if** (**true**) {  
 **var** x = 3;  
 }  
 console.log(x);  
}  
test();

* 1. 1
  2. 2
  3. 3
  4. undefined

ans: C) 3

### **6.** Which of the following statements about JavaScript variable scopes is correct?

* 1. Variables declared with var have block scope.
  2. Variables declared with let and const have block scope.
  3. Variables declared with let have function scope.
  4. Variables declared inside functions have global scope.

ans: B)

### **7.** What will be the output of the following code?

**var** x = 10;  
{  
 **var** x = 20;  
}  
console.log(x);

* 1. 10
  2. 20
  3. undefined
  4. Error

ans: B) 20

### **8.** What is the output of the following code?

**let** a = 5;  
{  
 **let** a = 10;  
 console.log(a);  
}  
console.log(a);

* 1. 10, 10
  2. 10, 5
  3. 5, 5
  4. 5, 10

ans: B) 10, 5

### **9.** What is the scope of a variable declared with let inside a for loop?

**for** (**let** i = 0; i < 3; i++) {  
 console.log(i);  
}  
console.log(i);

* 1. Global scope
  2. Block scope
  3. Function scope
  4. Undefined

ans: B) Block scope

### **10.** What is the scope of a variable declared with var inside a for loop?

**for** (**var** i = 0; i < 3; i++) {  
 console.log(i);  
}  
console.log(i);

* 1. Global scope
  2. Block scope
  3. Function scope
  4. Undefined

ans: A) Global scope

### **11.** Which scope does the variable name have in the following code?

**let** name = "John";  
**function** greet() {  
 console.log(name);  
}  
greet();

* 1. Block scope
  2. Global scope
  3. Function scope
  4. Undefined

ans: B) Global scope

### **12.** What is the result of the following code?

**var** x = 10;  
**function** test() {  
 **var** x = 20;  
 console.log(x);  
}  
test();  
console.log(x);

* 1. 20, 10
  2. 10, 20
  3. 20, 20
  4. 10, 10

ans: A) 20, 10

### **13.** What will the following code output?

**let** x = 5;  
**function** outer() {  
 **let** x = 10;  
 **function** inner() {  
 **let** x = 15;  
 console.log(x);  
 }  
 inner();  
}  
outer();

* 1. 5
  2. 10
  3. 15
  4. Error

ans: C) 15

### **14.** In which scope is the variable y accessible in the following code?

**function** test() {  
 **let** y = 30;  
 **if** (**true**) {  
 **let** y = 40;  
 }  
 console.log(y);  
}  
test();

* 1. Global scope
  2. Block scope
  3. Function scope
  4. Undefined

ans: C) Function scope

### **15.** Which scope does the variable a have in the following code?

**let** a = 100;  
**if** (**true**) {  
 **let** a = 200;  
 console.log(a);  
}  
console.log(a);

* 1. Global scope, Block scope
  2. Block scope, Global scope
  3. Global scope, Global scope
  4. Block scope, Block scope

ans: A) Global scope, Block scope

### **16.** What will be the output of the following code?

**var** a = 5;  
**function** myFunction() {  
 **if** (**true**) {  
 **var** a = 10;  
 }  
 console.log(a);  
}  
myFunction();

* 1. 10
  2. 5
  3. undefined
  4. Error

ans: A) 10

### **17.** What will be the output of this code?

**let** x = 5;  
**function** outer() {  
 **const** x = 10;  
 **function** inner() {  
 console.log(x);  
 }  
 inner();  
}  
outer();

* 1. 5
  2. 10
  3. undefined
  4. Error

ans: D) Error

### **18.** What is the scope of i in the following code?

**for** (**let** i = 0; i < 5; i++) {  
 console.log(i);  
}  
console.log(i);

* 1. Block scope
  2. Function scope
  3. Global scope
  4. Undefined

ans: A) Block scope

### **19.** What is the scope of a variable declared with const inside a block?

{  
 **const** a = 10;  
 console.log(a);  
}  
console.log(a);

* 1. Block scope
  2. Global scope
  3. Function scope
  4. Undefined

ans: A) Block scope

### **20.** What will the following code output?

**let** x = 100;  
{  
 **const** x = 50;  
 console.log(x);  
}  
console.log(x);

* 1. 100, 100
  2. 50, 100
  3. 50, 50
  4. 100, 50

ans: B) 50, 100

### **21.** In the following code, where is the variable x accessible?

**let** x = "global";  
**function** test() {  
 **let** x = "function";  
 **if** (**true**) {  
 **let** x = "block";  
 console.log(x);  
 }  
}  
test();  
console.log(x);

* 1. Block scope, Function scope
  2. Global scope, Function scope
  3. Global scope, Block scope
  4. Block scope, Global scope

ans: C) Global scope, Block scope

### **22.** What will be the output of this code?

**function** test() {  
 **var** x = 1;  
 **if** (**true**) {  
 **var** x = 2;  
 console.log(x);  
 }  
}  
test();

* 1. 1
  2. 2
  3. undefined
  4. Error

ans: B) 2

### **23.** What is the scope of a variable declared inside a function?

**function** foo() {  
 **let** z = 30;  
}  
console.log(z);

* 1. Global scope
  2. Function scope
  3. Block scope
  4. Undefined

ans: B) Function scope

### **24.** In which scope is the variable y in the following code?

**let** x = 100;  
**if** (**true**) {  
 **let** y = 200;  
 console.log(y);  
}

* 1. Block scope
  2. Global scope
  3. Function scope
  4. Undefined

ans: A) Block scope

### **25.** Which of the following will result in an error?

**let** a = 5;  
**const** a = 10;

* 1. No error
  2. Syntax error
  3. Runtime error
  4. Reference error

ans: D) Reference error

### **26.** What will be the output of this code?

**function** foo() {  
 **let** x = 20;  
 **return** **function**() {  
 console.log(x);  
 };  
}  
**const** bar = foo();  
bar();

* 1. undefined
  2. 20
  3. Error
  4. ReferenceError

ans: A) undefined

### **27.** What will be the output of the following code?

{  
 **let** a = 10;  
 **const** b = 20;  
 console.log(a, b);  
}  
console.log(a, b);

* 1. 10, 20, 10, 20
  2. 10, 20, undefined, undefined
  3. 10, 20, Error
  4. 10, 20, undefined, ReferenceError

ans: C) 10, 20, Error

### **28.** What is the result of this code?

**let** a = 10;  
**function** test() {  
 **let** a = 20;  
 {  
 **let** a = 30;  
 console.log(a);  
 }  
 console.log(a);  
}  
test();  
console.log(a);

* 1. 30, 20, 10
  2. 30, 30, 10
  3. 30, 20, 20
  4. 30, 20, Error

ans: A) 30,20,10

### **29.** In which scope is the variable x available in the following code?

**function** outer() {  
 **let** x = 10;  
 {  
 **let** x = 20;  
 {  
 **let** x = 30;  
 console.log(x);  
 }  
 }  
}  
outer();

* 1. Global scope
  2. Function scope
  3. Block scope
  4. Undefined

ans: C) Block scope

### **30.** What is the output of this code?

**let** x = 50;  
**function** test() {  
 **let** x = 100;  
 {  
 **const** x = 200;  
 console.log(x);  
 }  
 console.log(x);  
}  
test();  
console.log(x);

* 1. 200, 100, 50
  2. 200, 100, Error
  3. 200, 200, 50
  4. 200, 100, 100

ans: A) 200, 100, 50