

FRONT END – PART 2

JAVASCRIPT : FUNCTIONS AND ARRAYS

(Purpose of Return)

1. What is the purpose of return statement in a function ?

- a) Returns the value and continues executing rest of the statements, if any
- b) Returns the value and stops executing the function
- c) Returns the value and stops the program
- d) Stops executing the function and returns the value

(Function Definition)

2. What is the correct way of defining a function in JavaScript?

- a) Identifier and Parentheses
- b) Return type and Identifier
- c) Function keyword, Identifier and Parentheses
- d) Identifier and Return type

(More Arguments Passed)

3. What will the function 'test' return upon execution of these statements?

```
function test(a, b) {  
    console.log( a + b );  
}  
test( 2 , 3 , 4);
```

- a) 5
- b) Error (incorrect number of parameters)
- c) 9
- d) 7

(Fewer Arguments)

4. What will the function test return upon execution of these statements?

```
function test(a, b, c) {  
    console.log( a + b * c);  
}  
test(2,3);
```

- a) 5
- b) Error (incorrect no of parameters)
- c) NaN
- d) 0

(Function Hoisting)

5. In JavaScript function _____ are hoisted

- a) Initializations
- b) Declarations

(What is the Output)

6. What will be the output of following code?

```
x = 5;  
console.log(x);  
var x;
```

- a) Uncaught ReferenceError: x is not defined
- b) 5
- c) NaN
- d) 0

(Find the Output)

7. What is the output of following code?

```
hoisted();

function hoisted() {
  console.log('Hoisted');
}
```

- a) "Hoisted"
- b) Uncaught ReferenceError: hoisted is not defined
- c) ""
- d) `.f hoisted() { console.log('Hoisted') }`

(Variable Hoisting)

8. What will be the output of following code?

```
function demo() {
  console.log(x);
  var x = 10;
}

demo();
```

- a) NaN
- b) 10
- c) undefined
- d) 0

(Multiplication)

9. What will the following code print on console?

```
function multiply(a, b) {
  return a*b;
};

console.log(multiply);
```

- a) multiply
- b) a*b
- c) `f multiply(a, b) { return a*b; }`
- d) undefined
- e) None of the above

(Global and Local Variable)

10. What is the output of following code?

```
var a = 10;

function test() {
  var a = 20;
```

```
}  
  
test();  
console.log(a);
```

a) 10

b) 20

(Global Vs Local)

11. What is the output of following code

```
var a = 10;  
  
function test() {  
    var a = 20;  
    console.log(a);  
}  
  
test();
```

a) 10

b) 20

(Function Within Function)

12. What is the expected output of following code

```
function a() {  
    console.log("Inside a");  
  
    function b() {  
        console.log("Inside b");  
    }  
  
    a();  
}
```

a) Inside a

b) Inside b

c) `f a() { console.log("Inside a"); function b() { console.log("Inside b"); } }`

d) a

(Calling Inner Function)

13. What is the expected output of following code

```
function a() {  
    console.log("Inside a");  
  
    function b() {  
        console.log("Inside b");  
    }  
  
}
```

b());

- a) Inside a
- b) Inside a Inside b
- c) `f a() { console.log("Inside a"); function b() { console.log("Inside b"); } }`
- d) b
- e) Uncaught ReferenceError: b is not defined

(Function Call Inside Function)

14. What is the expected output of following code?

```
var combinedString = "";
function a() {
    combinedString = "Inside a";

    function b() {
        combinedString = combinedString + " Inside b";
    }

    b();
}

a();
console.log(combinedString);
```

- a) Inside a
- b) Inside a Inside b
- c) `f a() { console.log("Inside a"); function b() { console.log("Inside b"); } }`
- d) a
- e) Uncaught ReferenceError: b is not defined

(Function Expression)

15. What is the output of following code?

```
var RectArea = function(width, height) {
    return width * height;
}

console.log(RectArea(5,4));
```

- a) 20
- b) RectArea
- c) `f (width, height) { return width * height; }`

(Nested Variable Function)

16. What is the expected output of following code?

```
function a() {
```

```

    console.log("Inside a");

    function b() {
        console.log("Inside b");
    }
}

a())b();

```

- a) Inside a
- b) Inside a Inside b
- c) `f a() { console.log("Inside a"); function b() { console.log("Inside b"); } }`
- d) ab
- e) Uncaught SyntaxError: Unexpected identifier

(Nested Variable Function)

17. Choose the correct syntax for a function expression.

- a) `function function_Name(){ /*function body*/ }`
- b) `var variable_Name = function(){ /*function body*/ }`
- c) `var variable_Name = function function_Name(){ /*function body*/ }`
- d) None of the above.

(Run Subtract)

18. What is the expected output of following code?

```

var add = function (a, b) {
    return a+b;
}

var subtract = function (a, b) {
    return a-b;
}

var op = function (func) {
    var x = 2;
    var y = 3;
    return func(x, y);
}

console.log(op(subtract));

```

- a) 5
- b) -1
- c) `f (func) { var x = 2; var y = 3; return func(x, y); }`
- d) `f (a, b) { return a+b; }`

(Pass Function to Function)

19. What is the expected output of following code?

a) 5

b) -1

c) `f (func) { var x = 2; var y = 3; return func(x, y); }`

d) `f (a, b) { return a+b; }`

```
console.log(fruits.shift());
```

- a) Red b) Orange c) Blue d) Green

(Heterogeneous Array)

24. Is the below given array allowed in Javascript?

```
var myArray = [45, "Ninja"];
```

- a) Yes b) No

(Function of Splice)

25. What is the function of splice() in JavaScript?

- a) copies a given part of an array and returns that copied part as a new array.
- b) it removes duplicate elements from the given array
- c) it splits the string by separating it into two new array.
- d) slices a given part of an array and returns that sliced part as a new array.

(Array Splice)

26. What is the output of following code?

```
var fruits = ['Apple', 'Orange', 'Kiwi', 'Strawberry'];  
fruits.splice(4, 1, 'Banana');  
console.log(fruits);
```

- a) ["Banana","Apple", "Orange", "Kiwi", "Strawberry"]
- b) ["Apple", "Orange", "Kiwi", "Strawberry", "Banana"]
- c) ["Apple", "Banana", "Orange", "Kiwi", "Strawberry"]
- d) ["Apple", "Orange", "Kiwi", "Banana", "Strawberry"]

(Array Splice)

27. What is the output of following code?

```
var fruits = ['Apple', 'Orange', 'Kiwi', 'Strawberry'];  
fruits.splice(1, 0, 'Banana');  
console.log(fruits);
```

- a) ["Banana","Apple", "Orange", "Kiwi", "Strawberry"]
- b) ["Apple", "Orange", "Kiwi", "Strawberry", "Banana"]
- c) ["Apple", "Banana", "Orange", "Kiwi", "Strawberry"]
- d) ["Apple", "Orange", "Kiwi", "Banana", "Strawberry"]

(Executing a function)

28. Which JavaScript method is used to call a function once for each array element?

- a) for() b) traverse() c) forEach() d) foreach()

(Find the Output)

29. What will be the output of the following code?

```
var sum = 0;
var arr = [1, 2, 3];
arr.forEach(getSum);
console.log(sum);

function getSum(ele) {
    sum += ele;
}
```

- a) 3 b) 6
c) 2 d) None of the above.

ASSIGNMENT

(Global and Local Variable)

30. What is the output of following code?

```
var a = 10;

function test() {
    a = 20;
}

test();
console.log(a);
```

- a) 10 b) 20

(Omitted Value in Array)

31. Consider the code given below -

```
var arr = [ 1, , 3, 4 ];
```

What is the observation made?

- a) The omitted value takes “undefined” b) This results in an error
c) This results in an exception d) The omitted value takes an integer value 0

(Function in Function)

32. What will the following function return?

```
function sqSum(a, b) {
```



```

function square(x) {
    return x*x;
}

return square(a) + square(b);
}

```

- a) Square of sum of a and b
- b) Sum of square of a and b
- c) Sum of a and b square
- d) Error

(Passing Fewer Arguments)

33. What will the function 'test' return upon execution of these statements?

```

function test(a, b) {
    console.log( a + b );
}

test(2);

```

- a) 2
- b) Error (incorrect number of parameters)
- c) NaN
- d) 0

(Hoisting in Javascript)

34. What will be the output of following code snippet?

```

var a = 1;

function b() {
    a = 10;
    return;
    function a() { }
}

b();
console.log(a);

```

- a) 10
- b) 1
- c) f b() { a = 10; return; function a() { } }
- d) a

(Iterate Array)

35. What is the output of the following code?

```

array = [ 60, 70, 20, 10, 40, 90 ];

const test = function(x) {
    return x > 5;
}

```

```

if(!array.every(test)) {
    console.log("statement 1");
}

else {
    console.log("statement 2");
}

```

a) statement 1

b) statement 2

(What is the output of following code?)

36. What is the output of following code?

```

hoisted();
var hoisted = function() {
    console.log('bar');
};

```

a) bar

b) undefined

c) TypeError: Hoisted is not a function

(For Each Word)

37. What is the output of following code?

```

var words = ['one', 'two', 'three', 'four'];

words.forEach(function(word) {
    console.log(word);
    if (word === 'two') {
        words.shift();
    }
});

```

a) two three four

b) one three four

c) one two four

d) one two three

e) one two three four

(Splice)

38. What is the output of following code snippet?

```

var color = ['red', 'orange', 'blue', 'violet'];

var removed = color.splice(2);

console.log(color);
console.log(removed);

```

a) ["red", "orange"] ["blue", "violet"]

b) ["blue", "violet"] ["red", "orange"]

c) ["red", "violet"] ["orange", "blue"]

d) ["orange", "blue"] ["red", "violet"]

(Find the Output - 2)

39. What will be the output of the following code:

```
function a(){
  function b() {
    return 3;
  }

  return b();

  function b() {
    return 8;
  }
}

console.log(a());
```

- a) 3
- b) 8
- c) Type Error: b is not a function
- d) None of the above.

(Rest Parameter)

40. What will be the output of the following code?

```
function fun(...input){
  var sum = 0;
  for(var i = 0; i < input.length; i++){
    sum += input[i];
  }
  return sum;
}
console.log(fun(1,2,3,4,5));
```

- a) 3
- b) 6
- c) 10
- d) 15

(Default parameters)

41. Consider the following code snippet:

```
function f(a,b = 1) {
  console.log(a*b)
}
var x = // some hidden value
f(5,x)
```

What should be the value of x so that the output is 5?

- a) null
- b) undefined
- c) 0
- d) "
