



JAVASCRIPT BASIC TEST (30 MARKS)

Section A – Multiple Choice Questions (1 mark each)

What will the following code output?

```
const arr = [1, 2, 3];  
arr.push(4);  
console.log(arr.length);
```

1.
 - a) 3
 - b) 4
 - c) 5
 - d) Error

2. Which of the following removes the first element of an array?
 - a) `pop()`
 - b) `shift()`
 - c) `splice(0, 1)`
 - d) Both b and c

What will this return?

```
typeof null
```

3.
 - a) "null"
 - b) "undefined"
 - c) "object"
 - d) "number"

4. What is the correct way to declare a variable that cannot be reassigned?
 - a) `var x = 10`
 - b) `let x = 10`
 - c) `const x = 10`
 - d) `constant x = 10`

5. Which operator is used to compare both value and type?
 - a) `==`
 - b) `=`
 - c) `===`
 - d) `!=`

What will this output? `5" + 2`

6.
 - a) 7
 - b) "52"

- c) NaN
- d) Error

7. How can you copy part of an array without modifying the original array?

- a) `splice()`
- b) `slice()`
- c) `shift()`
- d) `pop()`

8. What does `map()` return?

- a) A new array
- b) The same array
- c) A number
- d) Nothing

9. How do you delete a property `age` from an object `person`?

- a) `person.remove(age)`
- b) `delete person.age`
- c) `person.delete(age)`
- d) `person.age = null`

What is the output of:

`typeof NaN`

10. a) "undefined"
b) "object"
c) "NaN"
d) "number"

Section B – Short Questions (2 marks each)

- 11. Explain the difference between `slice()` and `splice()` in arrays.
- 12. How can you iterate over all properties of an object in JavaScript?
- 13. What is the difference between `==` and `===`? Give one example.
- 14. Write a small code snippet to convert a string `"123"` to a number.
- 15. Write a code snippet to find the last element of an array without using `pop()`.

Section C – Long Questions (5 marks each)

16. Implement a small program to manage an array of fruits.

- Start with `["apple", "banana"]`
- Add `"mango"` at the end

- Add "kiwi" at the start
- Remove the last fruit
- Display the final array

17. Implement CRUD operations on an object representing a student.

- Create an object with `name`, `age`, and `grade`
- Update the `grade`
- Add a new property `course`
- Delete the `age` property
- Log the final object