✅ 1. JavaScript Basics

🎯 Direct:

1. What is the correct syntax for referring to an external script called `script.js`?
   a) `<script name="script.js">`
   b) `<script href="script.js">`
   c) `<script src="script.js">`
   d) `<script file="script.js">`
   ✅ **Answer: c**

2. How do you write a comment in JavaScript?
   a) `<!-- comment -->`
   b) `## comment`
   c) `// comment`
   d) `** comment **`
   ✅ **Answer: c**

3. Which of the following is not a JavaScript data type?
   a) Number
   b) String
   c) Boolean
   d) Character
   ✅ **Answer: d**

🧩 Scenario-Based:

4. A developer wants to declare a variable that will not change its value. Which keyword should be used?
   a) `var`
   b) `const`
   c) `let`
   d) `static`
   ✅ **Answer: b**

5. You need to print output to the browser console for debugging. Which command is appropriate?
   a) `alert()`
   b) `console.output()`
   c) `console.log()`
   d) `debug.print()`
   ✅ **Answer: c**

✅ 2. Control Flow

🎯 Direct:

1. Which keyword is used for conditional branching in JavaScript?
    a) `if`
    b) `switch`
    c) `for`
    d) `case`
    ✅ **Answer: a**

2. What is the result of: `true && false`?
    a) `true`
    b) `false`
    c) `undefined`
    d) `null`
    ✅ **Answer: b**

3. Which loop is guaranteed to execute at least once?
    a) `for`
    b) `while`
    c) `do...while`
    d) `forEach`
    ✅ **Answer: c**

🧩 Scenario-Based:

4. You want to run code repeatedly until a condition becomes false, but also ensure the block runs once. Which control structure do you use?
    a) `while`
    b) `if`
    c) `do...while`
    d) `switch`
    ✅ **Answer: c**

5. A user enters incorrect password multiple times. You want to limit the number of retries to 3. Which control structure is most appropriate?
    a) `if`
    b) `for`
    c) `while`
    d) `switch`
    ✅ **Answer: b**

✅ 3. Functions and Scope

🎯 Direct:

1. What keyword is used to define a function in JavaScript?
    a) `func`
    b) `def`
    c) `function`
    d) `fn`
    ✅ **Answer: c**

2. What is the default return value of a function that does not explicitly return anything?
    a) `0`
    b) `null`
    c) `undefined`
    d) `false`
    ✅ **Answer: c**

3. Which type of scope does a variable declared with `var` have?
    a) Block
    b) Global
    c) Function
    d) Module
    ✅ **Answer: c**

🧩 Scenario-Based:

4. A variable declared inside a function is not accessible outside it. What is this behavior an example of?
    a) Closure
    b) Global scope
    c) Block scope
    d) Function scope
    ✅ **Answer: d**

5. A developer creates two functions with the same name. What will happen?
    a) Both functions execute
    b) JavaScript throws error
    c) The second function overrides the first
    d) Random function gets executed
    ✅ **Answer: c**

✅ 4. Objects and the DOM

🎯 Direct:

1. What does `document.getElementById("demo")` do?
    a) Returns an array
    b) Selects an HTML element by ID
    c) Adds a class to the element
    d) Creates a new element
    ✅ **Answer: b**

2. Which property is used to change the content of an HTML element?
    a) `innerText`
    b) `textValue`
    c) `innerHTML`
    d) `value`
    ✅ **Answer: c**

3. What is the DOM?
    a) Data Object Model
    b) Document Object Model
    c) Digital Object Map
    d) Display Object Model
    ✅ **Answer: b**

🧩 Scenario-Based:

4. You want to dynamically add a new `<li>` element to an existing `<ul>`. What DOM method will you use?
    a) `createNode()`
    b) `appendChild()`
    c) `removeElement()`
    d) `querySelectorAll()`
    ✅ **Answer: b**

5. A user clicks a button and you want to change the button's text. Which property would you use?
    a) `value`
    b) `innerText`
    c) `textContent`
    d) `innerHTML`
    ✅ **Answer: d**

✅ 5. Arrays and Array Methods

🎯 Direct:

1. How do you add an item to the end of an array?
   a) `push()`
   b) `pop()`
   c) `shift()`
   d) `unshift()`
   ✅ **Answer: a**

2. Which method returns the first element that satisfies a condition?
   a) `filter()`
   b) `map()`
   c) `find()`
   d) `reduce()`
   ✅ **Answer: c**

3. What is the output of `[1,2,3].length`?
   a) 2
   b) 3
   c) 4
   d) undefined
   ✅ **Answer: b**

🧩 Scenario-Based:

4. You want to create a new array with values doubled from an existing array. Which method is suitable?
   a) `map()`
   b) `filter()`
   c) `reduce()`
   d) `find()`
   ✅ **Answer: a**

5. A user's order history needs to be filtered for items over $100. Which method would you use?
   a) `sort()`
   b) `filter()`
   c) `reduce()`
   d) `map()`
   ✅ **Answer: b**