**MODULE: 4 (JavaScript Basic & DOM)**

**ANS.1**

Java Script is an [object-oriented](https://www.google.com/search?sxsrf=APwXEdeNzGQHWt7Y0o7w5whtMAF09cMOGQ:1681559651738&q=object-oriented&si=AMnBZoGHIoBqH5NB1urY1HgDsH9EvBmSO16vEcOiTh3x36KXbnX-wxZ9Trhn8WjX6SbFbH-GrBXCXg3oVcemUkUEx0Z4GCNBs8Rp-jUxJA_7uBG_uw3N8us%3D&expnd=1) computer programming language commonly used to create interactive effects within web browsers.

**ANS.2**

The is NaN() function determines whether a value is NaN when converted to a number. Because coercion inside the is NaN() function can be surprising, you may alternatively want to use Number.is NaN () .

**ANS.3**

NEGATIVE\_INFINITY is a special numeric value that is returned when an arithmetic operation or mathematical function generates a negative value greater than the largest representable number in JavaScript (i.e., more negative than -Number. MAX\_VALUE) . JavaScript displays the NEGATIVE\_INFINITY value as -Infinity .

**ANS.4**

JavaScript was invented by Brendan Eich in 1995. It was developed for Netscape 2, and became the ECMA-262 standard in 1997. After Netscape handed JavaScript over to ECMA, the Mozilla foundation continued to develop JavaScript for the Firefox browser.

**ANS.5**

Undeclared variables are those that have not been declared or defined in the current scope, while undefined variables are those that have been declared but not given a value. Understanding the difference between these two terms is crucial for writing correct and effective JavaScript code. I hope this article taught you something!

**ANS.6**

The createElement() method in JavaScript can be used to create new items dynamically. The setAttribute() method is used to set the attributes of the newly generated element. By clicking a button, a modal box appears and collects the required information dynamically.

**ANS.7**

Session state is saved on the server, ViewState is saved in the page. Session state is usually cleared after a period of inactivity from the user (no request happened containing the session id in the request cookies). The view state is posted on subsequent post back in a hidden field.

**ANS.8**

In JavaScript, an operator is a special symbol used to perform operations on operands (values and variables). For example, 2 + 3; // 5. Here + is an operator that performs addition, and 2 and 3 are operands.

**ANS.9**

Element Class Names

Another way to alter the style of an element is by changing its class attribute. class is a reserved word in JavaScript, so in order to access the element's class, you use element.

**ANS.10**

1. file=fo pen (get Script Path(),0); The function f read () is used for reading the file content.
2. str = f read (file ,f length (file) ; The function f write () is used to write the contents to the file.
3. file = f open ("c:\MyFile.txt", 3);// opens the file for writing.

**ANS.11**

* for - loops through a block of code a number of times.
* for/in - loops through the properties of an object.
* for/of - loops through the values of an iterable object.
* while - loops through a block of code while a specified condition is true.

**ANS.12**

To convert a string to an integer parseInt(), Number(), and Unary operator(+) function is used in javascript. parseInt() function returns Nan( not a number) when the string doesn't contain number. If a string with a number is sent, then only that number will be returned as the output.

**ANS.13**

The delete operator removes a property from an object. If the property's value is an object and there are no more references to the object, the object held by that property is eventually released automatically.

**ANS.14**

JavaScript has three kind of popup boxes: Alert box, Confirm box, and Prompt box.

**ANS.15**

JavaScript void 0 means returning undefined (void) as a primitive value. You might come across the term “Java Script: void(0)” while going through HTML documents. It is used to prevent any side effects caused while inserting an expression in a web page.

**ANS.16**

In JavaScript, we can use window. location object to force a page to load another page. We can use the location object to set the URL of a new page.

**ANS.17**

**Disadvantages of inner HTML**

* Event handlers attached to any DOM element are preserved.
* Replacement is done everywhere.
* It is not possible to append inner HTML.
* Breaks the document.
* Used for Cross-site Scripting.