

## Computer Application

### 16 JavaScript Functions

#### Part-II

**Answer to the following questions (2 Marks):**

**1. What is a function in JavaScript?**

A function is a block of JavaScript code that is defined once but may be executed or invoked any number of times. Functions are used to encapsulate code that performs a specific task.

**2. What is the use of function?**

Function is used to keep code that performs a particular job in one place in order to enhance **reusability** and **program clarity**.

**3. Write a note on Library functions.**

Pre-defined functions are already defined in the JavaScript library which are also called Library functions. For example toUpperCase(), toLowerCase() etc., are pre-defined functions.

**4. Write a note on user defined functions.**

User-defined functions allow the programmer to modularize a program.

This eliminates the need of writing the same code again and again.

**5. Write the syntax of functions.**

Function function-name(parameters list)

```
{
Function Body ;
```

```
} Note: Function body include Declaration of variable and Executable statements.
```

#### Part III

**Answer to the following questions (3 Marks):**

**1. Write a program in JavaScript to find the cube of a number using function**

```
<html>
<body>
<script language="javascript" type="text/javascript">
var n=prompt("enter value:","0");
var c=cube(n);
document.writeln("the value is "+n+" the cube of given value is "+c);
function cube(x)
{
    var c=x*x*x;
    return c;
}
</script>
</body>
</html>
```

**2. Write a program in JavaScript to find the sum of 10 numbers using function.**

```
<html>
<head>
<title>Javascript</title>
<script language="javascript" type="text/javascript">
var n=9,sum=0,tot=add(n);
function add(j)
{
    for (var i = 0; i <= j; i++)
    { sum += i; }
    return sum;
} document.write("result"+sum);
</script>
</head>
<body>
</body>
</html>
```

## BOOK QUESTION

### Function in javascript?

Function	Description	Example	Result
toUpperCase()	Used to convert given string into uppercase	x="java" x.toUpperCase();	JAVA
toLowerCase()	Used to convert given string into lowercase	x="JAVA" x.toLowerCase();	java
<b>Note:</b> If first character of the string is not a Number then it returns <b>NaN</b>			
Length()	Used to find length of the given string	x="JAVA" x.length();	4
parseInt()	Used to convert the given float value into an integer	parseInt(34.234);	34
parseFloat()	the string and convert it into a floating point	parseFloat("34.23");	34.23
getElementById()	Method returns the element that has the ID attribute with the specified value.	getElementById("my Quiz")	
<b>Note:</b> <b>elements[0]</b> indicates the first option given in the question			

### Define isNaN()? means (is Not A Number)

The isNaN() function is used to check whether the given value or variable is valid number. This function returns true if the given value is not a number.

For example isNaN("12"), isNaN("A").

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