**B1) What is HTML5?**

**Ans.**

HTML5 is a markup language used for structuring and presenting content on the World Wide Web. It is the fifth and final major HTML version that is a WWW3 Consortium recommendation.

**B2) What is HTM5 Structure Based Tag?**

Ans.

<header>, <footer>, <main>, <figure>, <section>, <article>, <aside> and many more.

**B3) What is HTM5 Content Based Tag?**

**Ans.**

<em>, <strong>, <code>, <var> etc.

**B4) What is CSS3?**

**Ans.**

CSS3 is **the latest version of the CSS specification**. CSS3 adds several new styling features and improvements to enhance the web presentation capabilities.

**B5) What is Transition and Transform in CSS3?**

**Ans.**

Transition and transform are CSS properties.

The **transitions** allow you to change property values smoothly, over a given duration.

The **transform** property applies a 2D or 3D transformation to an element. This property allows you to rotate, scale, move, skew, etc., elements.

**B6) What is 2D Transform in CSS3?**

Two-dimensional transform. It transforms the elements along the X-axis and Y-axis.

**B7) What is JavaScript?**

JavaScript is a scripting language that enables you to create dynamically updating content, control multimedia, animate images, and pretty much everything else.

**B8) What is JavaScript Boxes?**

There are three types of dialog boxes supported in JavaScript that are **alert, confirm, and prompt**. These dialog boxes can be used to perform specific tasks such as raise an alert, to get confirmation of an event or an input, and to get input from the user.

**B9) What is JavaScript Events?**

JavaScript's interaction with HTML is handled through events that occur when the user or the browser manipulates a page. **When the page loads, it is called an event**. When the user clicks a button, that click too is an event. Other examples include events like pressing any key, closing a window, resizing a window, etc.

**B10) What is JavaScript Output method?**

JavaScript Output defines the ways to display the output of a given code.

**I1) How to use JavaScript Output method?**

JavaScript can "display" data in different ways:

* Writing into an HTML element, using innerHTML.
* Writing into the HTML output using document.write().
* Writing into an alert box, using window.alert().
* Writing into the browser console, using console.log().

**I2) How to use JavaScript Events to Do all examples?**

Basically, to handle events in HTML, you just need to **add the function in the HTML tag** which is going to be executed in JavaScript when any event in HTML is fired or triggered.

**I3) Calculate subtotal price of quantity in JavaScript?**

<table>

<thead>

<th>Quantity</th>

<th>Price</th>

<th>Sub Total</th>

</thead>

<tbody>

<tr>

<td><input type="number" name="" value="1" id="qnty" min="1"></td>

<td><div class="money">$<span id="price">20</span></div></td>

<td>$<span id="subtotal">20</span></td>

</tr>

</tbody>

</table>

<script type="text/javascript">

document.getElementById('qnty').addEventListener("keyup",subTotal);

function subTotal(){

let quantity = document.getElementById('qnty').value;

let price = parseInt(document.getElementById('price').innerHTML);

let subtotal\_price = quantity \* price;

document.getElementById('subtotal').innerHTML = subtotal\_price;

}

</script>

**I4) How to change images using onchange Events in JavaScript?**

<img src="pic\_bulboff.gif" id="bulb\_img" style="width:140px;display: block;margin-bottom: 30px;">

<label><input type="checkbox" value="" id="switch"><span>Switch on</span></label>

<script type="text/javascript">

document.getElementById("switch").addEventListener("change",mySwitch);

function mySwitch(){

let x = document.getElementById("switch");

if(x.checked){

var imgSrc = document.getElementById('bulb\_img');

imgSrc.src = "pic\_bulbon.gif";

x.nextSibling.innerHTML = 'Switch off';

}

else{

var imgSrc = document.getElementById('bulb\_img');

imgSrc.src = "pic\_bulboff.gif";

x.nextSibling.innerHTML = 'Switch on';

}

}

</script>

**A1) Write an examples of JavaScript Onblur events?**

Enter your name: <input type="text" id="fname" onblur="myFunction()">

<p>When you leave the input field, a function is triggered which transforms the input text to upper case.</p>

<script>

function myFunction() {

var x = document.getElementById("fname");

x.value = x.value.toUpperCase();

}

</script>

**A2) Write an example of HTML5 embed tag how to implements animation images in webpage?**

The <embed> tag defines a container for an external resource, such as a web page, a picture, a media player, or a plug-in application.

<embed type="image/jpg" src="pic\_trulli.jpg" width="300" height="200">

**A3) Write an example of transitions and transform attributes of css3 in web pages?**

To create a transition effect, you must specify two things:

* the CSS property you want to add an effect to
* the duration of the effect

**example:**

div{

width: 100px;  
   height: 100px;  
  background: red;

transition: width 2s;

}

**A4) Make a small calculator to add, subtracts and divide of two numbers in JavaScript?**

<form name = "form1">

<input id = "calc" type ="text" name = "answer"> <br> <br>

<input type = "button" value = "1" onclick = "form1.answer.value += '1' ">

<input type = "button" value = "2" onclick = "form1.answer.value += '2' ">

<input type = "button" value = "3" onclick = "form1.answer.value += '3' ">

<input type = "button" value = "+" onclick = "form1.answer.value += '+' ">

<br> <br>

<input type = "button" value = "4" onclick = "form1.answer.value += '4' ">

<input type = "button" value = "5" onclick = "form1.answer.value += '5' ">

<input type = "button" value = "6" onclick = "form1.answer.value += '6' ">

<input type = "button" value = "-" onclick = "form1.answer.value += '-' ">

<br> <br>

<input type = "button" value = "7" onclick = "form1.answer.value += '7' ">

<input type = "button" value = "8" onclick = "form1.answer.value += '8' ">

<input type = "button" value = "9" onclick = "form1.answer.value += '9' ">

<input type = "button" value = "\*" onclick = "form1.answer.value += '\*' ">

<br> <br>

<input type = "button" value = "/" onclick = "form1.answer.value += '/' ">

<input type = "button" value = "0" onclick = "form1.answer.value += '0' ">

<input type = "button" value = "." onclick = "form1.answer.value += '.' ">

<input type = "button" value = "=" onclick = "form1.answer.value= eval(form1.answer.value) ">

<br>

<input type = "button" value = "Clear All" onclick = "form1.answer.value = ' ' " id= "clear" >

<br>

</form>