



**END SEMESTER ASSESSMENT (ESA) B.TECH. III SEMESTER- Nov. 2015**

# UE14CS204 – Web Technology I

Time: 3 Hrs	Answer All Questions	Max Marks: 100
<b>Note: All answers must be precise and to the point.</b>		
1.	<p>a) Use <b>HTML</b> to create a document that contains the following poem by Sir Walter Scott</p> <p><b>My Native Land</b></p> <p><b>Breathes there the man, with soul so dead,</b></p> <p><b>Who never to himself hath said, This is my own, my native land!</b></p> <p>The page should be designed such that</p> <ul style="list-style-type: none"> <li>(i) The <b>title</b> of the page should be “Poems by Sir Walter Scott”</li> <li>(ii) “My Native Land” is displayed as a <b>heading</b></li> <li>(iii) A line should be displayed below the heading</li> <li>(iv) The remaining content should be displayed in a paragraph</li> <li>(v) The poet’s name should be displayed in italics on the page</li> </ul> <p><b>Underline the tags that you have used.</b></p> <p>b) <b>“Span and div elements have the exact same effect when applied around a body of text”.</b> Accept or reject this statement with suitable justification.</p> <p>c) What are the three approaches to applying styles to a given HTML page? Explain each one briefly.</p> <p>d) <b>#xyz {</b> margin: 0; padding: 3px; font-family: "Times New Roman", "Times Roman", Roman, serif; color: #000; <b>}</b></p> <p>Based on the code snippet above answer the following questions</p> <ul style="list-style-type: none"> <li>(i) Which selector is used in the above code?</li> <li>(ii) What does this statement indicate <b>padding: 3px;</b></li> <li>(iii) Write a single line of HTML code that applies the given style to a heading containing the text <b>“Life is beautiful”</b></li> </ul>	<p>6</p> <p>4</p> <p>6</p> <p>4</p>
2.	<p>a) Complete the code given below to calculate and display the sum and product of a and b</p> <pre> &lt;script type="text/javascript"&gt;     var a=window.prompt("Enter first value");     var b=window.prompt ("Enter second value");     //TODO: Display the sum and product of a and b  &lt;/script&gt; </pre>	5

	b)	<p>Explain <b>substring</b> and <b>substr</b> functions in Javascript. What is the output of the following script ?</p> <pre>&lt;script type="text/javascript"&gt;     var str = "Apples are round, and apples are juicy.";      document.write("(1,2): " + str.substr(1,2));     document.write("&lt;br /&gt;(0,10): " + str.substring(0, 10));     document.write("&lt;br /&gt;(5): " + str.substring(5)); &lt;/script&gt;</pre>	5
	c)	<p>Using Javascript's Date object write a program to display the current time in AM/PM format. e.g If it is 2:45 in the afternoon the script should display 2:45 PM</p>	5
	d)	<p>Using the built-in sort method of the array object to sort the given array in <b>ascending</b> order and display it.</p> <pre>&lt;script type="text/javascript"&gt;     var a=[100,89,34,22,140,32,67,199,30]     //TODO: sort the array and display it  &lt;/script&gt;</pre>	5
3.	a)	<p>Write a program using JavaScript and HTML which contains a button and a div. Each time the button is clicked the value in the div must be increment by 1.</p> <p><b>Sample Output:</b></p> <div> <div>19</div> <div>click me</div> </div>	6
	b)	<p>Mr. X designed the following webpage called page.html.</p> <pre>&lt;html&gt;   &lt;head&gt;     &lt;title&gt;Your Title Here&lt;/title&gt;   &lt;/head&gt;   &lt;body&gt;     &lt;img src="clouds.jpg" id="sky"&gt;     &lt;a href="http://somegreatsite.com"&gt;Link Name&lt;/a&gt; is a link to another nifty site     &lt;h1 id="name"&gt;My name is Alpha&lt;/h1&gt;     &lt;h2 id="fame"&gt;I am famous&lt;/h2&gt;     &lt;p id="normal"&gt; This is a normal paragraph! &lt;/p&gt;     &lt;p id="bold"&gt;This is a bold paragraph! &lt;/p&gt;   &lt;/body&gt; &lt;/html&gt;</pre> <p>Help him write a function <b>change()</b> using <b>only javascript</b> that can make the following changes to the DOM of page.html</p> <ol style="list-style-type: none"> <li>Create a new div whose id is extra. Add the two paragraph elements to this div</li> <li>Change the image elements source to "sky.jpg"</li> <li>Remove the h2 element from the page</li> <li>Change the font color of h1 to red.</li> </ol>	8

<i>K</i>	<i>Potassium</i>
<i>Na</i>	<i>Sodium</i>
<i>Ca</i>	<i>Calcium</i>