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## PES Institute of Technology, Bangalore (An Autonomous Institute under VTU, Belgaum)

14CS204

## SEMESTER END EXAMINATION (SEE) B.E. III SEMESTER- Nov. 2015

## 14CS204 - Web Technology I

Time: 3 Hrs. Answer All Questions Max Marks: 100

Note: All answers must be precise and to the point.

1.	a)	Use <b>HTML</b> to create a document that contains the following poem by Robert Frost	6		
		Stopping By Woods On A Snowy Evening			
		The woods are lovely, dark, and deep, But I have promises to keep,			
	And miles to go before I sleep, And miles to go before I sleep.				
		The page should be designed such that  (i) The <b>title</b> of the page should be "Poems by Robert Frost"  (ii) "Stopping By The Woods On A Snowy Evening" is displayed as a <b>heading</b>			
		(iii) A line should be displayed below the heading			
		(iv) The remaining content should be displayed in a paragraph			
		(v) The poet's name should be displayed in italics on the page			
		Underline the tags that you have used.			
	b)	"The only way to apply CSS is by using external stylesheets" Accept or reject this statement with suitable justification.	4		
	c)	Explain box model with a suitable diagram.	6		
	d)	.ids {	4		
		margin: 8px;			
		padding: 0 3px 0 3px;			
		font-family: "Times New Roman", "Times Roman", Roman, serif;			
		color: #000;			
		}			
		Based on the code snippet above answer the following questions			
		(i) Which selector is used in the above code?			
		(ii) What does this statement indicate margin:8px;			
		(iii) Write a single line of HTML code that applies the given style to a paragraph containing the text "Welcome to My World"			
	l .				
2.	a)	Complete the code given below to calculate the area and circumference of a circle	5		
		<script type="text/javascript"></td><td></td></tr><tr><td></td><td></td><td>var radius=window.prompt("Enter the value");</td><td></td></tr><tr><td></td><td></td><td>//TODO: Display the area and circumference of circle for the given radius</td><td></td></tr><tr><td></td><td></td><td></script>			
	b)		5		
	,	Explain substring and substr functions in Javascript. What is the output of the following program?			
		<pre><script type="text/javascript"></pre></td><td></td></tr><tr><td></td><td></td><td><pre>var str = "Do good to others to feel good about yourself"; document.write("(3,4): " + str.substr(3,4));</pre></td><td></td></tr><tr><td></td><td></td><td>document.write(<math>(3,4)</math>): + str.substring(0, 10));</td><td></td></tr><tr><td></td><td></td><td>document.write(" (8): " + str.substring(8)); </script></pre>			

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	c)	Using Javascript's Date object write a program to diplay the current time in AM/PM format. e.g If it is 2:45 in the afternoon the script should display 2:45 PM	5
	d)	Using the built-in sort method of the array object sort the given array in <b>descending</b> order. <script type="text/javascript"> var a=[100,89,34,22,140,32,67,199,30] //TODO:</td><td>5</td></tr><tr><td></td><td></td><td></script>	
3.	a)	Write a program using JavaScript and HTML which contains a button. When the button is clicked a div with a solid black border that is 2 pixels wide should be added to the page.	6
	b)	Walt Disney designed the following webpage called page.html. <a disney.jpg"="" href="https://www.new.new.new.new.new.new.new.new.new.&lt;/td&gt;&lt;td&gt;8&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;title&gt;It's a Small World &lt;/title&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;body&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;img src=" id="goofy"></a>	
		Welcome to <a href="http://smallworld.com">Small World</a>	
		<h1 id="name">Disney Small World</h1>	
		<h2 id="fame">Unity in Diversity</h2>	
		<pre> Rides Every Hour </pre>	
		<pre>Shows in the afternoon </pre>	
		Help him to write a javascript function <b>modify()</b> that can make the following changes to the DOM of page.html	
		i)Create a new div whose id is smw. Add the two paragraph elements to this div ii)Change the image elements source to "small.jpg"	
		iii) Remove the h1 element from the page	
		iv) Change the font color of paragraph to red.	
	c)	What is an event object? For a given event e what do the following properties signify i)altKey ii)cancelBubble	6
		iii)keyCode	
		iv)type	
		v) client	
4.	a)	What is server side scripting? When do we use it?	5
	b)	Tom is a website designer. He wants to store the user's choice for font color on the user's machine. He does not want to use cookies. What other technology can Tom use? What are the advantages of using this technology?	5
	c)	What are the two types of gradients that can be used on an HTML5 canvas? Complete the given code snippet such that a square with each side 50 pixels is created at coordinates (50,50) on the canvas. Apply a green and blue gradient to the square.	5

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5.	d)	<pre><script> var c=document.getElementById("myCanvas"); var ctx=c.getContext("2d"); var grd=ctx.createLinearGradient(0,0,170,0);  //TODO: Apply a blue and green gradient to the square. </script>  What is offline browsing? Why is a cache manifest required for offline browsing? cache manifest contain?</pre>					5 4
	b)	containing two fields named username and password.  (i) Which two methods can be used for submitting a form?  (ii) Which method is used in the form shown above  (iii) Write a PHP script to print the two values submitted in the form.					6
	5)	from normal arrays? Write a PHP script to create an array called \$data congiven below and then print the contents of the array.  Hint: You may use for loop or foreach loop for printing the array  France Paris  Italy Rome  Japan Tokyo	tainin	ig th	ne da	ata	J
	c)	) What are regular expressions? Name any two functions in PHP used for searchin	What are regular expressions? Name any two functions in PHP used for searching a string.				4
	d)	<ul> <li>(i) How can they be created?</li> <li>(ii) How are they deleted?</li> <li>(iii) How can you access the values stored in cookies?</li> </ul>					6