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PES University, Bangalore (Established under Karnataka Act No. 16 of 2013)

UE14CS204

END SEMESTER ASSESSMENT (ESA) B.TECH. III SEMESTER- Nov. 2015 UE14CS204 - Web Technology I

Tin	ne: 3	3 Hrs Answer All Questions Max Marks:	100
No	te: /	All answers must be precise and to the point.	
1.	a)	Use HTML to create a document that contains the following poem by Sir Walter Scott My Native Land Breathes there the man, with soul so dead, Who never to himself hath said, This is my own, my native land!	6
		The page should be designed such that (i) The title of the page should be "Poems by Sir Walter Scott" (ii) "My Native Land" is displayed as a heading (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)	"Span and div elements have the exact same effect when applied around a body of text". Accept or reject this statement with suitable justification.	4
	c)	What are the three approaches to applying styles to a given HTML page? Explain each one briefly.	6
	d)	#xyz { margin: 0; padding: 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 padding: 3px; (iii) Write a single line of HTML code that applies the given style to a heading containing the text "Life is beautiful"	4
2.	a)	Complete the code given below to calculate and display the sum and product of a and b <script type="text/javascript"> var a=window.prompt("Enter first value"); var b=window.prompt ("Enter second value"); //TODO: Display the sum and product of a and b </script>	5

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	b)	Explain substring and substr functions in Javascript. What is the output of the following script? <pre></pre>							
	c)	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							
	d)	Using the built-in sort method of the array object to sort the given array in ascending order and display it. <script type="text/javascript"> var a=[100,89,34,22,140,32,67,199,30] //TODO: sort the array and display it </script>							
3.	a)	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. Sample Output: 19 click me							
	b)	Mr. X designed the following webpage called page.html. <htead> <ti>title>Your Title Here <ti>dody> Link Name is a link to another nifty site <h1 id="name">My name is Alpha</h1> <h2 id="fame">I am famous </h2>I am famous This is a normal paragraph! Help him write a function change() using only javascript that can make the following changes to the DOM of page.html i)Create a new div whose id is extra. Add the two paragraph elements to this div ii)Change the image elements source to "sky.jpg" iii) Remove the h2 element from the page iv) Change the font color of h1 to red.</ti></ti></htead>							

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	c)	In the context of event he following properties signify i)ctrlKey		es " this " signify?For a giv	ven event e what do the	6			
		ii)cancelBubble							
		iii)keyCode							
		iv)type							
		v) screenX							
4. a)	a)	What is client-side scripting	g? List any three I	imitations of client-side scri	pting	5			
	b)	(Cookies have a number of limitations". How does HTML5 propose to solve these. Explain.							
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 (10,10) on the canvas. Apply a black and white gradient to the square. <script></td></tr><tr><td></td><td></td><td colspan=6>var c=document.getElementById("myCanvas");</td></tr><tr><td></td><td></td><td colspan=6>var ctx=c.getContext("2d");</td></tr><tr><td rowspan=3></td><td></td><td colspan=6>var grd=ctx.createLinearGradient(0,0,170,0);</td></tr><tr><td></td><td colspan=7>//TODO: Apply a black and white gradient to the square.</td></tr><tr><td></td><td colspan=9></script>							
	d)	Why is a cache manifest re	equired? What are	e its three parts?		5			
5.	a)	https://www.example.com/login.php?user=mickey&passwd=mini							
		The LIRL shown above was displayed in the address har after submitting on HTML form							
		The URL shown above was displayed in the address bar after submitting an HTML form. (i) Which two methods can be used for submitting a form?							
		(ii) Which method was used to submit the form referred to above.							
		(iii) Write a PHP script to print the two values passed in the query string shown above							
b)	b)	What type of array is required for representing the data shown below? How are they different from normal arrays? Write a PHP script to create an array called \$data containing the data given below and then print the contents of the array. Hint: You may use for loop or foreach loop for printing the array							
		Hint: You may use for loop	<u> </u>	, , ,	1				
			Κ	Potassium	1				
			Na	Sodium	1				
			Ca	Calcium					
		What are regular expressions? Name any two functions in PHP used for searching a string.							
	c)	what are regular expression	ono. Hamo any ti	vo functions in FFIT used to					