

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

## END SEMESTER ASSESSMENT (ESA) B.TECH. III SEMESTER- Dec. 2016 UE15CS204 - Web Technology I

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

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

1.	a)	Write HTML code to design the table as shown below. Add embedded CSS to the page such that  i. All table headings are displayed in red font  ii. All other cells have blue text  iii. Hovering over any cell of the table changes the color of text to yellow								
:			Sno	Course	Subject	Marks Internal External		Category		
				DT (CCC)	Fun with Game Design	30	70	T		
			1	B Tech(CSE)	Fun with Programming	30	70	P		
	b) What are the three approaches to applying styles to a given HTML page? Explain each briefly.								6	
	с)		i. ii. iii. iv. v.	The participal The participant me Participant me The form she details as we Create the western and the participant me The form she details as we create the western and the participant me The participant	ay select more than one house the select more than one house to enter his ag	uity membor accomposed e as betworthe incomposed for the incomposed in the incompose	pers or continuous or continuo	npany representatives. from a list of four hotels. A 5","25-35" or"35-45" n to accept above mentioned ender. nult values	7	
2.	a)	Hint: You may use the built in sort function or a sorting algorithm like bubble sort								
	b)	What are the five primitive types in JavaScript? With a neat diagram show how primitives and objects are stored.								
	с)	(	ques func s va	tions that tion f1(s) = s.split( r len = s. halfInde tmp; or (var i = tmp = s[le	{ ''); length, ex = Math.floor(length) to 0; i <= halfIndex en - i - 1]; - 1] = s[i];	n / 2)	- 1,	ly and answer the	7	

```
alert(s.join(''));
      ŀ
      function f2(str,num)
      var UPPER = 'ABCDEFGHIJKLMNOPQRSTUVWXYZ';
      var LOWER = 'abcdefghijklmnopqrstuvwxyz';
      var result = [];
         for(var x=0; x<str.length; x++)</pre>
            if(UPPER.indexOf(str[x]) !== -1)
              result.push(str[x].toLowerCase());
            else if (LOWER.indexOf(str[x]) !== -1)
              result.push(str[x].toUpperCase());
            else
              result.push(str[x]);
          }
       alert(result.join(''));
       Questions:
              i.What is the output of f1("stressed")
             ii.What is the output of f1("stressed", "relaxed")
            iii.What is the output of f2("I Love New York",5);
             iv. What is the ouput of f2("I Love New York");
                                                                                             7
       Create a simple web based copy and paste tool. It should work as follows
3.
   a)
              User types text in a textbox
          i.
              When user right clicks the contents of the text box are copied
         ii.
              When the user right clicks anywhere on the page a div with the copied text appears at
              that position.
              Please account for the phenomenon of event bubbling in your program
         iv.
       What are the three models for registering event handlers? Explain with relevant code examples.
                                                                                             6
       Explain using a simple example
   c)
              How to check if any child element exists in a given html page
          i.
              How to access all the child elements (including nested elements) of a given page
         ii.
                                                                                             7
        Using PHP create two simple scripts
4.
   a)
            (i) To measure the number of page refreshes that occurs
            (ii)To count the number of page visits
```



	b)	April is a great UI designer with excellent HTML, CSS and JavaScript skills. She has created a simple webpage to showcase the paintings she does as a hobby. She wants to add a page to website where visitors can add comments. Then she wants to host the website. In addition to the skills that she has, what new technology skills must she adopt to achieve this. Given that on the comments page the users enters their names in one box and comments in another box, demonstrate with suitable code examples how April will code for this.  Note: Writing the HTML code is not required. Assume the name of the textboxes in the form are "name" and "comments"					
	с)	While reading PHP code if you come across the line of code shown below, how would you interpret it?  \$toread = fopen('some/abc.txt','r');  What is the significance of the second parameter of the fopen function? Can it take other values? If so, list out the other possible values for the second parameter and their significance.	7				
5.	a)	A team at greys.com wants to reengineer their customer orders page. They want to add a date picker to the page similar to the one shown below.    did   mm - yyyy   ‡	7				
	b)	Using canvas draw the diagram shown below. All lines must be green in color, The circle must be red and the triangle must be yellow.	6				
	c)	Della has developed an educational website that is popular among school students. She wants to ensure that the website is available to students even when they are not connected to the internet. Describe with suitable code examples the approach she must take	7				