

**END SEMESTER ASSESSMENT (ESA) B. TECH III SEMESTER- Dec 2018****UE17CS204 – Web Technologies I**

Time: 3 Hrs

Answer All Questions

Max Marks: 100

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

1.	a)	What are URLs? What is the significance of using <code>http://localhost/test.html</code> to open a file rather than double clicking and opening the same file?	4
	b)	Create a page for a user to enter his travel details for a booking a flight. The user must be able to enter the from and to, gender, travel dates, whether he needs meals, assistance etc. and his budget. Justify the selection of input types using HTML comments. Please ensure that when the form is submitted, the data entered is available on the server and is not part of the URL	6
	c)	Create a div that is placed at 200 px from the top left corner of the browser. The div contains the image "pic.jpeg". Clicking on the image must open the page <code>www.pics.com</code> . The text below the div must be exactly as follows Click on the image to proceed. Note: Ensure proper spacing and demarcation within and outside the div.	4
	d)	Demonstrate the three approaches you can use to include CSS in a web page with relevant code snippets? Write CSS rules for the following i. Mouse over any paragraph changes font color to green and background to red. ii. All hyperlinks that are in an unordered list must be green iii. All table cells with class 'test' must have a green border	6
2	a)	Create a page with the following functionality: i. Left click – displays a menu with options "Add" and "Delete" ii. Double click – clears the menu if it is shown, and creates a blue rectangle at that point iii. Pressing the "L" key on the key board displays a prompt for the user to enter text that will be displayed in the rectangle, if present. iv. Display the prompt again if the text has more than 50 characters v. Pressing "Ctrl+X" clears everything on the page.	9
	b)	Create a web page such that a first-time user is prompted to enter his favorite number and on subsequent visits the number is displayed in a div after incrementing it by one. Suggest two approaches to implement this. Implement the solution using the more efficient approach. Justify your selection	5
	c)	Write short notes on i. Offline Browsing ii. Web Workers iii. Hoisting	6

Page 2 of 3

5.	a)	What is jQuery? What are its advantages?	4
	b)	What is responsive design? Explain how bootstrap enables responsive design with an example.	6
	c)	What is the significance of \$(document).ready()? Use jQuery to do the following i. Add a red border to all png images ii. When the mouse is placed over a list item change its font color to red	6
	d)	What are the seven styles of buttons available in bootstrap? Create a button and a datalist(it must contain the bootstrap styles) on the page and change the style of the button based on the user's selection. Achieve this using jQuery and Bootstrap.	4