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Reg.No:

FRANCIS XAVIER ENGINEERING COLLEGE
(An Autonomous Institution)
B.E DEGREE – CONTINUOUS ASSESSMENT EXAMINATION I
Fifth Semester
Computer Science and Engineering
19CS5701– Internet Programming
(Regulation 2019)

Time: Three hours

Maximum: 100 Marks

Answer ALL Questions

Note: Students are informed to spend minimum of first 15minutes to read and observe all the questions carefully and write the marks they can score for each questions in Pre-Exam valuation Marks Column and after Complete Exam they can asked to enter the Post- Exam Evaluation Marks Column.

PART – A (10 x 2 = 20 Marks)

| Q.No | Question | | | | |
|------|--|---|---|---|---|
| 1. | Write HTML code to display an image. (2) Include the element \"background\" with the name of the graphics file: <BODY BACKGROUND=\\gumby.gif\" BGCOLOR=\\#ffffff\" TEXT=\\#000000\" LINK=\\#cc0000\" VLINK=\\#000066\" ALINK=\\#ffff00\"> | | | | |
| 2. | How will you create a password field in a HTML form? (2) <html<<body>Enter password:<Input type=\\\"Password\\\" name=p1 value=p> </body></html> | | | | |
| 3. | <table border="1"><tr><td>W</td><td>Y</td></tr><tr><td>X</td><td>Z</td></tr></table> Write HTML code to create the following table <html> <body> <table> <tr><td>w</td><td>Y</td></tr> <tr><td>X</td><td>Z</td></tr></table></body></html> | W | Y | X | Z |
| W | Y | | | | |
| X | Z | | | | |
| 4. | Write the use Of IP Addresses And Ports?(2) It is very difficult to remember the IP address of each and every node. It order to avoid this problem domain names are used. | | | | |

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| | <p>Example googl.com, rediff.com etc.</p> <p>PORTS : Ports are used in receiving and sending data to another server or client.</p> <p>Example for port numbers</p> |
| 5. | <p>Mention the need for cascading style sheets.(2)</p> <p>CSS makes the front end of a website shine and it creates a great user experience.</p> <p>Without CSS , websites would be less pleasing to the eye and likely much harder to navigate. In addition to layout and format,CSS is responsible for font color and more.</p> |
| 6. | <p>How external style sheet is useful in web page design?(2)</p> <p>The external style sheet is generally used when we want to make changes on multiple pages. It is ideal for this condition because it facilitates to change the look of the entire web site by changing just one file.</p> <p>It uses the <link> tag on every pages and the <link> tag should be put inside the head section.</p> <p>Example:</p> <pre><head> <link rel="stylesheet" type="text/css" href="mystyle.css"> </head></pre> <p>The external style sheet may be written in any text editor but must be saved with a .css extension.</p> <p>An example of a style sheet file named "mystyle.css".</p> <p><i>File: mystyle.css</i></p> <pre>body { background-color: lightblue; } h1 { color: navy; margin-left: 20px; }</pre> |
| 7. | <p>Write a javascript program using prompt() (2)</p> <pre><!DOCTYPE html> <html> <head> <title> JavaScript prompt() method </title> <script> function fun() { var a = prompt("Enter some text", "the javatpoint.com"); if (a != null) { document.getElementById("para").innerHTML = "Welcome to " + a; } } </script> </head> <body style = "text-align: center;"> <h1 style = "color: red;"> Hello World </h1> <h2></pre> |

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| | <p>Example of the JavaScript prompt() method</p> <pre> </h2> <button onclick = "fun()"> Click me </button> <p id = "para"></p> </body> </html> </pre> |
| 8. | <p>How to validate email in JavaScript?(2)</p> <pre> <!DOCTYPE html> <html lang="en"> <head> <title>JavaScript form validation - checking email</title> <link rel='stylesheet' href='form-style.css' type='text/css' /> </head> <body onload='document.form1.text1.focus()'> <div class="mail"> <h2>Input an email and Submit</h2> <form name="form1" action="#"> <input type='text' name='text1' /> &nbsp; <li class="submit"><input type="submit" name="submit" value="Submit" onclick="ValidateEmail(document.form1.text1)" /> &nbsp; </form> </div> <script src="email-validation.js"></script> </body> </html> function ValidateEmail(inputText) { var mailformat = /^[w+]{[\.-]?w+}@w+{[\.-]?w+}(\.[w]{2,3})+\$/; if(inputText.value.match(mailformat)) { alert("Valid email address!"); document.form1.text1.focus(); return true; } else { alert("You have entered an invalid email address!"); document.form1.text1.focus(); return false; } } </pre> |

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| | } |
| 9. | <p>How will you change the HTML element using DOM?(2)</p> <pre> <html> <body> <p id="well"> This is an Existing Content. </p> <script> document.getElementById("well").innerHTML = 'This is an New Content.'; </script> </body> </html> </pre> |
| 10. | <p>How to add nodes in DOM Tree?(2)</p> <p>The first step is to create a node object of the type you want using one of document.createElement(), document.createAttribute() or document.createTextNode(). For attributes, however, you'll probably just want to create an element node and assign it attributes directly</p> |

PART – B (5 x 13 = 65 Marks)

| Q.No | Question |
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| 11 (a) | <p>Write and explain HTTP request message format. (13)</p> <p>HTTP request</p> <ul style="list-style-type: none"> Ø Start line (3) Ø Header field(s) (one or more) (3) Ø Blank line (3) Ø Message body (optional) (4) <p align="right">(OR)</p> |
| 11 (b) | <p>Create a Restaurant Web Page with HTML forms in detail along with form elements, attributes and methods.(13)</p> <ul style="list-style-type: none"> • HTML form with elements , attributes and methods (10) • Output(3) |
| 12 (a) | <p>Explain how tables can be inserted into a HTML document with an example.(13)</p> <ul style="list-style-type: none"> • HTML table elements with attributes and values(10) • Output(3) <p align="right">(OR)</p> |
| (b) | <p>Create a HTML Form page for Railway Registration Form and apply HTML List elements. (13)</p> <ul style="list-style-type: none"> • HTML form with List elements , attributes and methods (10) • Output(3) |
| 13 (a) | <p>Develop a simple online shopping application using CSS Selectors.(13)</p> |

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| | <ul style="list-style-type: none"> • Program using Class, id , multiple, universal selectors (10) • Output (3) (OR) |
| (b) | <p>Apply CSS to a web page with the following requirements (13)</p> <p>(i) Paint the background gray (3)</p> <pre><style background-color:"red"></pre> <p>(ii) Set the background image (3)</p> <pre><style background Image:url:"sample.gif"></pre> <p>(iii)Set the width of the border (3)</p> <pre><style border width-=5px></pre> <p>(iv)Set the margin with four values (4)</p> <pre><style border-margin:20px,10px,10px,10px></pre> |
| 14a) | <p>Design a form with following condition emp- name, product- name, dept-name etc should not be blank .Write a function for all these validation .When you introduce any number field, always check it is negative or not, if it so do not accept the input value. calculate Gross.value = val(basic.value + hra.value+da.value)(13)</p> <ul style="list-style-type: none"> • Program (10) • Output (3) <p>(OR)</p> |
| (b) | <p>Write the complete JavaScript to prompt the user for the radius of the sphere and call function sphere Volume to calculate and display the volume of the sphere. Use the statement. $\text{Volume} = (4.0/3.0) * \text{Math.PI} * \text{Math.pow}(\text{radius}, 3)$ (13)</p> <ul style="list-style-type: none"> • Program (10) • Output (3) |
| 15 (a) | <p>i)Apply HTML element id to find the DOM HTML element.</p> <pre><!DOCTYPE html> <html> <body> <h2>GeeksforGeeks</h2> <!-- Finding the HTML Elements by their Id in DOM --> <p id="intro">A Computer Science portal for geeks.</p> <p>This example illustrates the getElementById method.</p> <p id="demo"></p> <script> const element = document.getElementById("intro"); document.getElementById("demo").innerHTML = "GeeksforGeeks introduction is: " + element.innerHTML;</pre> |

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| | <pre> </script> </body> </html> ii) illustrates the dom-manipulation using getElementById() Method.(6) <!DOCTYPE html> <html> <head> <title>DOM manipulation</title> </head> <body> <label>Enter Value 1: </label> <input type="text" id="val1" /> <label>Enter Value 2: </label> <input type="text" id="val2" /> <button onclick="getAdd()">Click To Add</button> <p id="result"></p> <script type="text/javascript"> function getAdd() { // Fetch the value of input with id val1 const num1 = Number(document.getElementById("val1").value); // Fetch the value of input with id val2 const num2 = Number(document.getElementById("val2").value); const add = num1 + num2; console.log(add); // Displays the result in paragraph using dom document.getElementById("result").innerHTML = "Addition : " + add; // Changes the color of paragraph tag with red document.getElementById("result").style.color = "red"; } </script> </body> </html> (OR) </pre> |
| (b) | <p>i) Explain about the document tree in detail.</p> <p>Program (4) Tree (3)</p> <p>ii) Explain DOM event handling in detail.</p> <p>Events (3) Program (3)</p> |

PART – C (1 x 15 = 15 marks)

| Q.No | Question |
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| 16 (a) | <p>Create a HTML Form page for Railway Registration Form and apply HTML List elements (15)</p> <ul style="list-style-type: none"> Design a web page using HTML form elements like textbox, label, radio, checkbox, option, button, file, color etc. also list elements (12) Output (3) <p align="center">(OR)</p> |
| (b) | <p>Write a java script program to develop the arithmetic calculator.(15)</p> <ul style="list-style-type: none"> Program(12) Output (3) <p>!-- Create a simple Program to build the Calculator in JavaScript using with HTML and CSS web languages. --></p> <pre> <!DOCTYPE html> <html lang = "en"> <head> <title> JavaScript Calculator </title> <style> h1 { text-align: center; padding: 23px; background-color: skyblue; color: white; } #clear{ width: 270px; border: 3px solid gray; border-radius: 3px; padding: 20px; background-color: red; } .formstyle { width: 300px; height: 530px; margin: auto; border: 3px solid skyblue; border-radius: 5px; padding: 20px; } input </pre> |

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{
width: 20px;
background-color: green;
color: white;
border: 3px solid gray;
border-radius: 5px;
padding: 26px;
margin: 5px;
font-size: 15px;
}

#calc{
width: 250px;
border: 5px solid black;
border-radius: 3px;
padding: 20px;
margin: auto;
}
</style>
</head>
<body>
<h1> Calculator Program in JavaScript </h1>
<div class= "formstyle">
<form name = "form1">
  <!-- This input box shows the button pressed by the user in calculator. -->
  <input id = "calc" type = "text" name = "answer"> <br> <br>
  <input type = "button" value = "1" onclick = "form1.answer.value += '1' ">
  <input type = "button" value = "2" onclick = "form1.answer.value += '2' ">
  <input type = "button" value = "3" onclick = "form1.answer.value += '3' ">
  <input type = "button" value = "+" onclick = "form1.answer.value += '+' ">
  <br> <br>
  <input type = "button" value = "4" onclick = "form1.answer.value += '4' ">
  <input type = "button" value = "5" onclick = "form1.answer.value += '5' ">
  <input type = "button" value = "6" onclick = "form1.answer.value += '6' ">
  <input type = "button" value = "-" onclick = "form1.answer.value += '-' ">
  <br> <br>
  <input type = "button" value = "7" onclick = "form1.answer.value += '7' ">
  <input type = "button" value = "8" onclick = "form1.answer.value += '8' ">
  <input type = "button" value = "9" onclick = "form1.answer.value += '9' ">
  <input type = "button" value = "*" onclick = "form1.answer.value += '*' ">
  <br> <br>
  <input type = "button" value = "/" onclick = "form1.answer.value += '/' ">
  <input type = "button" value = "0" onclick = "form1.answer.value += '0' ">
  <input type = "button" value = "." onclick = "form1.answer.value += '.' ">
  <!-- When we click on the '=' button, the onclick() shows the sum results on the calculat
or screen. -->
  <input type = "button" value = "=" onclick = "form1.answer.value = eval(form1.answer.value)
">
  <br>
  <!-- Display the Cancel button and erase all data entered by the user. -->
  <input type = "button" value = "Clear All" onclick = "form1.answer.value = ' ' " id= "clear" >
  <br>
</form>
</div>
</body>
</html>

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