


KONGU ENGINEERING COLLEGE, PERUNDURAI - 638 060
CONTINUOUS ASSESSMENT TEST – I
(Regulations 2020)
Answer Key

Month and Year : March 2023	Roll Number :
Programme : B.Tech.	Date :
Branch : IT	Time : 09.15 am to 10.45 am
Semester : IV	Duration : 1 ½ Hours
Course Code : 20ITT44	Max. Marks : 50
Course Name : WEB TECHNOLOGY	

PART - A (10 × 2 = 20 Marks)			
ANSWER ALL THE QUESTIONS			
1.	List the key features of Web 2.0. <ul style="list-style-type: none"> • Dynamic content that is responsive to user input • Developed APIs to allow self-usage • It changed the concept of “mostly read only web” to “widely read and write” over web. • to actively participating in creation, sharing, and collaboration. 	CO1	K1
2.	How to set the width and height of an image using HTML? 	CO1	K1
3.	Create an HTML document containing an order list of two items about your favourite foods. <pre> <html> <body> Foods <ol type="1"> Strawberry chocolate pineapples </body> </html> </pre>	CO1	K3
4.	Recall the purpose of responsive web design. To create a website and it can automatically adjust itself to look good on all devices, from smart phones to desktops etc	CO1	K1
5.	Give the basic Structure of a Bootstrap Grid. <pre> <div class = "row"> <div class = "col"> </div> <div class = "col"> </div> <div class = "col"> </div> <div class = "col"> </div> <div class = "col"> </div> </div> </pre>	CO1	K1
6.	List the CSS selectors. Element name selector (p{}) Element id selector(#id) Element class selector(.class) Universal selector(*) Grouping Selectors(h1,p,em {})	CO1	K1

7.	<p>What is the output of the following script? (Ans: no output)</p> <pre><!DOCTYPE html> <html lang="en"> <body> <p id="#output" > </p> <script> var x = 20; var y = '20'; if (x === y) { document.getElementById('output').innerHTML = 'x and y are equal.'; } else { document.getElementById('output').innerHTML = 'x and y are not equal.'; } </script> </body> </html></pre> <p>Correct Program:</p> <pre><!DOCTYPE html> <html lang="en"> <body> <p id="output"> </p> <script> var x = 20; var y = '20'; if (x === y) { document.getElementById("output").innerHTML = "x and y are equal."; } else { document.getElementById("output").innerHTML = "x and y are not equal."; } </script> </body> </html></pre>	CO2	K2								
8.	<p>Difference between var and let in JavaScript.</p> <table><thead><tr><th>var</th><th>let</th></tr></thead><tbody><tr><td>It can be declared globally and can be accessed globally.</td><td>It can be declared globally but cannot be accessed globally.</td></tr><tr><td>Variable declared with var keyword can be re-declared and updated in the same scope. Example: function varGreeter(){ var a = 10; var a = 20; //a is replaced console.log(a); } varGreeter();</td><td>Variable declared with let keyword can be updated but not re-declared. Example: function varGreeter(){ let a = 10; let a = 20; //SyntaxError: //Identifier 'a' has already been declared console.log(a); } varGreeter();</td></tr><tr><td>It is hoisted. Example: { console.log(c); // undefined. //Due to hoisting</td><td>It is not hoisted. Example: { console.log(b); // ReferenceError: //b is not defined</td></tr></tbody></table>	var	let	It can be declared globally and can be accessed globally.	It can be declared globally but cannot be accessed globally.	Variable declared with var keyword can be re-declared and updated in the same scope. Example: function varGreeter(){ var a = 10; var a = 20; //a is replaced console.log(a); } varGreeter();	Variable declared with let keyword can be updated but not re-declared. Example: function varGreeter(){ let a = 10; let a = 20; //SyntaxError: //Identifier 'a' has already been declared console.log(a); } varGreeter();	It is hoisted. Example: { console.log(c); // undefined. //Due to hoisting	It is not hoisted. Example: { console.log(b); // ReferenceError: //b is not defined	CO2	K2
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		<pre>var c = 2; }</pre>	<pre>let b = 3; }</pre>				
9.	Write a JavaScript that performs the cube of a given number. Read the input from the user. <!DOCTYPE html> <html lang="en"> <body> <p id="output"> </p> <script> var x=prompt(); document.getElementById("output").innerHTML = x*x*x; </script> </body> </html>				CO2	K3	
10.	Find the Page Structured Elements in HTML. <article> <aside> <details> <figcaption> <figure> <footer> <header> <main>				CO1	K1	
Part – B (3 × 10 = 30 Marks)							
ANSWER ANY THREE QUESTIONS							
11.	i)	Design a home page banking application using the following bootstrap elements a. Navigation tab <ul class="nav nav-tabs"> <li class="nav-item"> Active <li class="nav-item"> Link <li class="nav-item"> Link <li class="nav-item"> Disabled b. Forms (Input and Input groups) <form>			(5)	CO1	K3

		<pre><div class="input-group"> @ <input type="text" class="form-control" placeholder="Username"> </div> <div class="input-group"> <input type="text" class="form-control" placeholder="Your Email"> @example.com </div> </form></pre>									
	ii)	<p>Explain the syntax of different data types in JavaScript with one example for each type.</p> <pre>// Numbers: let length = 16; let weight = 7.5; // Strings: let color = "Yellow"; let lastName = "Johnson"; // Booleans let x = true; let y = false; // Object: const person = {firstName:"John", lastName:"Doe"}; // Array object: const cars = ["Saab", "Volvo", "BMW"]; //BigInt let x = BigInt("123456789012345678901234567890"); //undefined let car; // Value is undefined, type is undefined //null var x = null; console.log(x); // returns null //Symbol let id = Symbol(); // id is a symbol with the description "id" let id = Symbol("id");</pre>	(5)	CO2	K2						
12.	i)	<p>Create a webpage to display the following table with design specification as shown, using HTML and CSS.</p> <table border="1"><tr><td>Name:</td><td>AAA</td></tr><tr><td>Email:</td><td>aaa@example.com</td></tr><tr><td>Phone:</td><td>0424 220000</td></tr></table> <pre><!DOCTYPE html> <html></pre>	Name:	AAA	Email:	aaa@example.com	Phone:	0424 220000	(5)	CO1	K3
Name:	AAA										
Email:	aaa@example.com										
Phone:	0424 220000										

	<pre> <head> <style> table, th, td { border: 1px solid; } </style> </head> <body> <table> <tr> <th>Name:</th> <td>AAA</td> </tr> <tr> <th>Email:</th> <td>aaa@example.com</td> </tr> <tr> <th rowspan="2">Phone:</th> <td>0424</td> </tr> <tr> <td>220000</td> </tr> </table> </body> </html> </pre>			
ii)	<p>Illustrate the different types of CSS with one example for each type.</p> <p>Three ways u can apply CSS to a HTML Document</p> <ul style="list-style-type: none"> Inline Internal / Embedded External <p>Inline - Using the style attribute in HTML elements</p> <pre><h2 style="color:red;">Inline CSS is applied on this heading.</h2></pre> <p>Embedded (Internal) - Using a <style> element in the <head> section</p> <pre> <html> <head> <style> p { color: red; </pre>	(5)	CO1	K2

	<pre> text-align: center; } </style> </head> <body> <p>hai </p> <p> hello</p> </body></html> External - Using an external CSS file <html> <head> <link href="mystyle.css" rel="stylesheet" type="text/css" > </head> <body> <h1>This is a heading</h1> <p>This is a paragraph.</p> </body> </html> mystyle.css body { background-color: lightblue; } h1 { color: navy; margin-left: 20px; } </pre>			
13.	<p>Design a webpage with the following student registration form</p> <div data-bbox="193 1200 874 1700" data-label="Form"> </div> <pre> <Html> <body> Registration Page

 <form> <label> Firstname </label> <input type="text" name="firstname" size="15"/>

 <label> Middlename: </label> </pre>	(10)	CO1	K3

		<pre> <input type="text" name="middlename" size="15"/>

 <label> Lastname: </label> <input type="text" name="lastname" size="15"/>

 <label> Course : </label> <select> <option value="Course">Course</option> <option value="BCA">BCA</option> <option value="BBA">BBA</option> <option value="B.Tech">B.Tech</option> <option value="MBA">MBA</option> <option value="MCA">MCA</option> <option value="M.Tech">M.Tech</option> </select>

 <label> Gender : </label>
 <input type="radio" name="male"/> Male
 <input type="radio" name="female"/> Female
 <input type="radio" name="other"/> Other
 <label> Phone : </label> <input type="text" name="country code" value="+91" size="2"/> <input type="text" name="phone" size="10"/>

 Address
 <textarea cols="80" rows="5" value="address"> </textarea>

 Email: <input type="email" id="email" name="email"/>

 Password: <input type="Password" id="pass" name="pass">

 <input type="button" value="Submit"/> </form> </body> </html> </pre>			
14.	i)	<p>Calculate the electricity bill with the help of the below charges using JavaScript:</p> <p>1 to 100 units – Rs. 10/unit 100 to 200 units – Rs. 15/unit 200 to 300 units – Rs. 20/unit</p>	(10)	CO2	K3

above 300 units – Rs. 25/unit

<html>

<body>

<script>

var units=prompt();

if (units <= 100)

{

document.write(units * 10);

}

else if (units <= 200)

{

document.write((100 * 10)+ (units - 100)* 15);

}

else if (units <= 300)

{

document.write((100 * 10)+ (100 * 15) + (units - 200)* 20);

}

else if (units > 300)

{

document.write((100 * 10)+ (100 * 15)+ (100 * 20) + (units - 300)* 25);

}

</script>

</body>

</html>

Bloom's Taxonomy Level	Remembering (K1)	Understanding (K2)	Applying (K3)	Analysing (K4)	Evaluating (K5)	Creating (K6)
Percentage	20	23	57	--	--	--