



(Autonomous) (ISO/IEC - 27001 - 2013 Certified)

## WINTER – 2023 EXAMINATION Model Answer – Only for the Use of RAC Assessors

**Subject Name: Client Side Scripting** 

**Subject Code:** 

22519

#### Important Instructions to examiners:

- 1) The answers should be examined by key words and not as word-to-word as given in the model answer scheme.
- 2) The model answer and the answer written by candidate may vary but the examiner may try to assess the understanding level of the candidate.
- 3) The language errors such as grammatical, spelling errors should not be given more Importance (Not applicable for subject English and Communication Skills.

Q. No.	Sub Q. N.	Answer	Marking Scheme
1		Attempt any <u>FIVE</u> of the following:	10 M
	a)	State meaning of each token of the following statement and describe it:  i) ++a;  ii) document. bgcolor;	2 M
	Ans	(i) ++ is the increment operator and a is the operand, hence a++ will increment the	Anyone
		value of a by 1.	explained - 1
		(ii) The bgColor property specifies the background color of HTML document.	M each.
	<b>b</b> )	Write and explain syntax of prompt() method in JavaScript.	2 M

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A	• <b>prompt</b> () method is used to display a dialogue box	x to the user to prompt them to	Definition- 1
	an input. ☐ It has two buttons "OK" and "CANCEL"	', if the user click on the "OK"	M
	button then it will return the inputed value, if the use	r clicks on the "CANCEL"	Syntax-1 M
	button then it will return a null value		-
	Syntax: prompt(text)		

- 4) While assessing figures, examiner may give credit for principal components indicated in the figure. The figures drawn by candidate and model answer may vary. The examiner may give credit for any equivalent figure drawn.
- 5) Credits may be given step wise for numerical problems. In some cases, the assumed constant values may vary and there may be some difference in the candidate's answers and model answer.
- 6) In case of some questions credit may be given by judgement on part of examiner of relevant answer based on candidate's understanding.
- 7) For programming language papers, credit may be given to any other program based on equivalent concept.
- 8) As per the policy decision of Maharashtra State Government, teaching in English/Marathi and Bilingual (English + Marathi) medium is introduced at first year of AICTE diploma Programme from academic year 2021-2022. Hence if the students in first year (first and second semesters) write answers in Marathi or bilingual language (English + Marathi), the Examiner shall consider the same and assess the answer based on matching of concepts with model answer.
- 9) For programming language papers, in answer session comments and output is not required.

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		☐ Example: <script></th><th></th></tr><tr><th></th><th></th><th>var name = prompt ("Enter a</th><th></th></tr><tr><th></th><th></th><th>name"); document. Write(name); </script>	
	<b>c</b> )	List various assignment operators supported by JavaScript, explain any two	2 M
		with the help of suitable example.	
			71. 136
	Ans	assignment operators supported by JavaScript	List – 1 M
		Operators Meaning	Explain any 2
		= Equal to	- 1 M
		+= Plus Equal to	1 1/1
		-= Minus Equal to	
/		/= Divide Equal to	
		%= Modulus Equal to	
		*= Multiply Equal to	
		Example:	
		<script></th><th></th></tr><tr><th></th><th></th><th>// = is used to assign a value to a variable</th><th></th></tr><tr><th></th><th></th><th>var num = 10;</th><th></th></tr><tr><th></th><th></th><th>document.write(num); // num 10</th><th></th></tr><tr><th></th><th></th><th>/* += first add the value to the existing value of the variable then assign it the new added</th><th></th></tr><tr><th></th><th></th><th>value */</th><th></th></tr><tr><th></th><th></th><th>num +=10; document.write(num); // num 20 </script>	
	d)	Differentiate between shift() and push() methods of an Array object.	2 M

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Ans			Any two
	shift	push	points- 1 N
	1. shift method is used to delete the first	1. push method is used to insert zero or	each
	element of an existing array	more element at the end of an existing array	
	2. Syntax:	2. Syntax:	
	arr.shift();	arr.push(element1,element2,,elementn);	
	3. Example:	3. Example:	
	<script> var arr =</th><th><script> var arr =</th><th></th></tr><tr><th></th><th>[1,2,3,4];</th><th>[1,2,3,4];</th><th></th></tr><tr><th></th><th>document.write(arr);</th><th>document.write(arr);</th><th></th></tr><tr><th></th><th>arr.shift();</th><th>arr.push(5,6);</th><th></th></tr><tr><th></th><th>document.write(arr);</th><th>document.write(arr);</th><th></th></tr><tr><td></td><td></script> <td></td> <td></td>		
e)	State the meaning of "Defining a function	" Evplain with the halp of an everpla	2 M
	State the meaning of Defining a function	. Explain with the help of an example.	2 111

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Ans	A function is a block of code that takes some input to perform some certain computation.	Explanation- 1 M
	<ul> <li>The main purpose of the function is to put commonly used or repeatedly used task in a function, so instead of writing the code again and again we can call it instead.</li> </ul>	Example- 1 M
	• The function can be defined as followed:	
	Syntax:	
	function func_name(parameter1 ,parameter2,,parametern) { //code	
	Example:	
	<pre><script> function add(num1,num2) { return num1 + num2; } add(1,2); </script></pre>	
f)	Give syntax of and explain the use of small "with" clause.	2 M
Ans	"with" clause is used to directly access the properties and method of an object. Syntax: with (object) { //object }	Explanation- 1 M Syntax- 1 M
	Example:	
	<pre><script> var person ={ name:"Abc", age:18 } with(person){ docment.write(name); docment.write(age); } </script></pre>	
g)	With the help of suitable example explain the Date object and any two methods of Date object.	2 M

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	Ans	"Date" object is used when we want to perform some operation on date, it has various method which helps you performs some task related to date, Example:	Explanation- 1 M
			Example- 1
		<script> var date = new Date();</th><th>M</th></tr><tr><th></th><th></th><th>document.write(date.getDate()); // get the current date document.write(date.getFullYear()); // get the current Year document.write(date.getMinutes()); // get the current minutes </script>	
4			
2.		Attempt any THREE of the following:	12 M
	a)	Write a JavaScript that accepts a number and displays addition of digits of that number in a message box.	4 M
	Ans	<pre><html></html></pre>	Relevant code- 4 M
	<b>b</b> )	Describe the navigator object in JavaScript. Describe the methods of navigator object which is used to display browser name and version.	4 M

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Ans	☐ Navigator object is a representation of user's browser. ☐	Explanation -
	Navigator is an object of window.	2 M
	> Methods of navigator object- Only one method is supported by Navigator	
	Object.	Method – 2
	i) javaEnabled()- returns true if the browser has java enabled.	M
	• We use appName to display browser name. appName is a property of navigator.	
	<ul> <li>appName property returns browser name.</li> </ul>	
	<ul> <li>We use appVersion to display browser version. appVersion is a property of</li> </ul>	
	navigator.	
	<ul> <li>appVersion property returns browser version.</li> </ul>	
	• Example:- <html></html>	
	<pre><body> <script> document.write("Browser name: "+navigator.appName);</pre></th><th></th></tr><tr><th></th><th>document.write("Browser Version: "+navigator.appVersion); </script></body></pre>	
<b>c</b> )	Give syntax of and explain for-in loop in javascript with the help of suitable	4 M
	example.	

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Ans	For-in Loop:	Explanation - 2 M
	Syntax:-	
	For(x in object){	Syntax – 1 M
	//code to be executed	Example-1 M
	}	
	<ul> <li>For-in loop is used to loop through the properties of an object.</li> <li>In syntax, variable represents the property name, and object is the object being iterated.</li> </ul>	
	<ul> <li>It's handy for tasks like accessing or manipulating object properties.</li> <li>Example:-</li> </ul>	
	<html> <body> <script></th><th></th></tr><tr><th></th><th>Var car = { Brand: 'Toyota', Model: 'Camry', Year: 2022 };</th><th></th></tr><tr><th></th><th>For( key in car) { Document.write('\${key}: \${car[key]}'); }</th><th></th></tr><tr><th></th><th></script></body></html>	
d)	Write an HTML script that accepts Amount, Rate of interest and Period from user. When user submits the information a JavaScript function must calculate and display simple interest in a message box. (Use formula S.I. = PNR/100)	4 M

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Ans	<html></html>	Relevant
	<pre><body> <script> var P = parseInt(prompt("Enter the principal amount:")); var N = parseInt(prompt("Enter the period:")); var R = parseInt(prompt("Enter the Rate of interest:")); var SI = (P*N*R)/100; alert("Simple Interest is "+SI);</pre></th><th>code- 4 M</th></tr><tr><th></th><th></th><th></th></tr></tbody></table></script></body></pre>	

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```
</script>
</body>
</html>
                                       OR
<html>
 <head>
   <script>
       function interest()
      var P, N, R;
      P= parseInt(document.getElementById("pr").value);
      N =
parseInt(document.getElementById("period").value);
                                                       R =
parseInt(document.getElementById("ri").value);
                                                   var SI
=(P*N*R)/100;
      alert("Simple Interest is="+SI);
     </script>
 </head>
 <body>
   Principal Amount:<input id="pr">
   Period in Year: <input id="period">
   Rate of Interst: <input id="ri">
   <button onclick="interest()"> Simple Interest</button>
</body>
</html>
```

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	Output: Principal Amount: 1000	
	Period in Year: 1	
	Rate of Interst: 12	
	Simple Interest	
	www.w3schools.com says	
	Simple Interest is=120	
\ 		

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3.		Attempt any THREE of the following:	12 M
	a)	Write an HTML Script that displays the following webpage output:    First Number :	Designing and calling function in onClick() - 1M  Writing function for add,sub,mul-03M

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```
<html>
Ans
        <head>
         <script>
      function add()
             var num1, num2, r;
            //to accept 2 values and stored in variable num1 and num2
      num1 = parseInt(document.getElementById("firstnumber").value);
      num2 = parseInt(document.getElementById("secondnumber").value);
      r = num1 + num2;
                              alert(r);
               function sub()
             var num1, num2, r;
            num1 = parseInt(document.getElementById("firstnumber").value);
      num2 = parseInt(document.getElementById("secondnumber").value);
```





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```
r = num1 - num2;
alert(r);
       function mul()
      var num1, num2, r;
      num1 = parseInt(document.getElementById("firstnumber").value);
num2 = parseInt(document.getElementById("secondnumber").value);
= num1 * num2;
      alert(r);
     </script>
 </head>
 <body>
 <fieldset>
   First Number: <input id="firstnumber">
   Second Number: <input id="secondnumber">
 //onClick() event to perform addition, subtraction and multiplication
   <button onclick="add()">Add</button>
   <button onclick="sub()">Sub</button>
   <button onclick="mul()">Mul</button>
  </fieldset>
 </body>
</html>
```





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Output:	
First Number: 46 Second Number: 7 Add Sub Mod	

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	www.w3schools.com says 53	
	OK	
<b>b</b> )	Write a JavaScript that accents user's first name and domain name of Organization from user., The JavaScript then forms email address as <firstname@domain> name and displays the results in the browser window.</firstname@domain>	4 M

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	Ans	<html></html>	Accept values- 1M
		<head></head>	Formation of
		<script></th><th>email id-2M</th></tr><tr><th></th><th></th><th>//Email Address Function</th><th>Calling</th></tr><tr><th></th><th></th><th>myemail()</th><th>function in onClick()-1M</th></tr><tr><th></th><th></th><th></th><th>onenek() 11v1</th></tr><tr><th></th><th></th><th>var s1 = document.getElementById("first").value;</th><th></th></tr><tr><th></th><th></th><th>var s2 = document.getElementById("domain").value;</th><th></th></tr><tr><th></th><th></th><th>var s3=s1+"@"+s2;</th><th></th></tr><tr><th></th><th></th><th>document.getElementById("email").innerHTML = s3; }</th><th></th></tr><tr><th></th><th></th><th></script>	
		<body></body>	
		First Name: <input id="first"/>	
		>Domain Name: <input id="domain"/>	
		<button onclick="myemail()">create email id</button>	
		  Email ID is	
1		<pre></pre>	





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	Output:	
	First Name: mahak	
	Domain Name: zita.edu.in	
	create email id	
	Email ID is	
	mahak@zita.edu.in	_
c)	Differentiate between substring() and substr() method of a string class. Give Suitable	4 M
	example of each.	

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Ans	Parameters	substring()	substr()	
	Use	It is used to extract the	It is used to extract a part of the	3 points-3M
		specified substring within a string	string	Example-1M
	Syntax	str.substring(start, end);	str.substr(start, len);	
	Parameters	Its parameters are the start and end position of the substring that we want to extract.	It takes parameters as starting index of the part which we want to extract and the length till which we want to extract the string part.	
	index	This method cannot handle negative indexes.	This method can handle negative indexes.	
	substring()="+a.sul	document.write("Using bstring(2,6)); br>Using substr()="+a.substr(2,6)"	5));	
	Output: Using substring()=			
	Using substr()=vas	<u>cr</u> i		<del>-</del>
<b>d</b> )	State what is a coo	okie? Explain its need. State ch	aracteristics of per <mark>sistent</mark> cookies.	4 M

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	Ans	Cookie:	Definition-1M
		Cookies are small text files that websites use to store information on a user's computer or device. Cookies can be used for a variety of purposes, such as remembering a user's	Need-1M
		preferences, tracking their behavior on a website, and enabling personalized advertising.	Charactristics-
		There are two main types of cookies: session cookies and persistent cookies.	2M
		Need of Cookie:	
		Cookies are built specifically for web browsers to track, personalize and save information	
		about each user's session. A "session" is the word used to define the amount of time you	
		spend on a site. Cookies are created to identify you when you visit a new website.	<u> </u>
		Characteristics of persistent cookies:	
		Persistent cookies can be used to store information that needs to be accessed across	
		multiple browsing sessions, such as login credentials and language preferences.	
		• Persistent cookies can be used to track a user's behavior on a website over time,	
		which can be used to personalize the user's experience.	1
		• Persistent cookies can be used to remember a user's preferences, such as their preferred layout or font size.	
		preferred rayout of four size.	
4.		Attempt any <u>THREE</u> of the following:	12 M
	a)	Write a JavaScript that accepts a string and searches for the pattern	4 M
		"MSBTE" in the given string using regular expressions. If the pattern is	
		found, JavaScript will display that "Pattern is found" else display "Pattern is	
		not found".	
L			

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	<html></html>	Accept string-
	<head></head>	1 <b>M</b>
	<title>JavaScript RegExp exec Method</title>	G 4
		Correct
	<body></body>	RegEx-2M
	<script type="text/javascript"> var</th><th>Condition</th></tr><tr><th></th><th>str= prompt("Enter a string"); var re =</th><th>checking-1M</th></tr><tr><th></th><th>new RegExp( "MSBTE", "g" );</th><th></th></tr><tr><th></th><th>var result = re.exec(str);</th><th></th></tr><tr><th></th><th>if(result=="MSBTE")</th><th></th></tr><tr><th></th><th><b>\</b></th><th></th></tr><tr><th></th><th>document.write("pattern is found");</th><th></th></tr><tr><th></th><th>] }</th><th></th></tr><tr><th></th><th>else</th><th></th></tr><tr><th></th><th>1</th><th></th></tr><tr><th></th><th>document.write("pattern is not found");</th><th></th></tr><tr><th></th><th></th><th></th></tr><tr><th>-</th><th></th><th></th></tr><tr><th></th><th></script>	
		435
<b>b</b> )	List and state various properties of a window object. Write a JavaScript that	4 M
<b>b</b> )	opens a new popup window with message WELCOME To SCRIPTING" when	4 M
<b>b</b> )	opens a new popup window with message WELCOME To SCRIPTING'' when the page loads and a new popup window displaying message "FUN WITH	4 M
<b>b</b> )	opens a new popup window with message WELCOME To SCRIPTING" when	4 M
ŕ	opens a new popup window with message WELCOME To SCRIPTING" when the page loads and a new popup window displaying message "FUN WITH SCRIPTING when the page unloads.	
Ans	opens a new popup window with message WELCOME To SCRIPTING'' when the page loads and a new popup window displaying message "FUN WITH	properties of a
ŕ	opens a new popup window with message WELCOME To SCRIPTING'' when the page loads and a new popup window displaying message "FUN WITH SCRIPTING when the page unloads.  Window Object Properties	properties of a window
ŕ	opens a new popup window with message WELCOME To SCRIPTING'' when the page loads and a new popup window displaying message "FUN WITH SCRIPTING when the page unloads.  Window Object Properties  Property  Description	properties of a
ŕ	opens a new popup window with message WELCOME To SCRIPTING'' when the page loads and a new popup window displaying message "FUN WITH SCRIPTING when the page unloads.  Window Object Properties	properties of a window
ŕ	opens a new popup window with message WELCOME To SCRIPTING" when the page loads and a new popup window displaying message "FUN WITH SCRIPTING when the page unloads.  Window Object Properties  Property  Description  Document It returns the document object for the window (DOM).	properties of a window object-1M
ŕ	opens a new popup window with message WELCOME To SCRIPTING" when the page loads and a new popup window displaying message "FUN WITH SCRIPTING when the page unloads.  Window Object Properties  Property Description  Document It returns the document object for the window (DOM).  Frames It returns an array of all the frames including iframes in the current	properties of a window object-1M calling onload
ŕ	opens a new popup window with message WELCOME To SCRIPTING" when the page loads and a new popup window displaying message "FUN WITH SCRIPTING when the page unloads.  Window Object Properties  Property  Description  Document It returns the document object for the window (DOM).	properties of a window object-1M
ŕ	opens a new popup window with message WELCOME To SCRIPTING" when the page loads and a new popup window displaying message "FUN WITH SCRIPTING when the page unloads.  Window Object Properties  Property  Description  Document It returns the document object for the window (DOM).  Frames It returns an array of all the frames including iframes in the current window.	properties of a window object-1M calling onload
ŕ	opens a new popup window with message WELCOME To SCRIPTING" when the page loads and a new popup window displaying message "FUN WITH SCRIPTING when the page unloads.  Window Object Properties  Property Description  Document It returns the document object for the window (DOM).  Frames It returns an array of all the frames including iframes in the current window.  Closed It returns the Boolean value indicating whether a window has been	properties of a window object-1M calling onload ()-1M
ŕ	opens a new popup window with message WELCOME To SCRIPTING" when the page loads and a new popup window displaying message "FUN WITH SCRIPTING when the page unloads.  Window Object Properties  Property  Description  Document It returns the document object for the window (DOM).  Frames It returns an array of all the frames including iframes in the current window.	properties of a window object-1M calling onload ()-1M calling
ŕ	opens a new popup window with message WELCOME To SCRIPTING" when the page loads and a new popup window displaying message "FUN WITH SCRIPTING when the page unloads.  Window Object Properties  Property  Description  Document It returns the document object for the window (DOM).  Frames It returns an array of all the frames including iframes in the current window.  Closed It returns the Boolean value indicating whether a window has been closed or not.	properties of a window object-1M  calling onload ()-1M  calling onunload()-
ŕ	opens a new popup window with message WELCOME To SCRIPTING" when the page loads and a new popup window displaying message "FUN WITH SCRIPTING when the page unloads.  Window Object Properties  Property Description  Document It returns the document object for the window (DOM).  Frames It returns an array of all the frames including iframes in the current window.  Closed It returns the Boolean value indicating whether a window has been	properties of a window object-1M calling onload ()-1M calling
ŕ	opens a new popup window with message WELCOME To SCRIPTING" when the page loads and a new popup window displaying message "FUN WITH SCRIPTING when the page unloads.  Window Object Properties  Property  Description  Document It returns the document object for the window (DOM).  Frames It returns an array of all the frames including iframes in the current window.  Closed It returns the Boolean value indicating whether a window has been closed or not.	properties of a window object-1M  calling onload ()-1M  calling onunload()-





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	innerWidth	It sets or returns the inner width of a window's content area.	
	Length	It returns the number of frames in a window.	valid function definition-1M
	Location	It returns the location object for the window.	definition 1141
	Name	It sets or returns the name of a window.	
	Navigator	It returns the navigator object for the window.	
	Opener	It returns a reference to the window that created the window.	
A	outerHeight	It sets or returns the outer height of a window, including toolbars/scrollbars.	
	outerWidth	It sets or returns the outer width of a window, including toolbars/scrollbars.	
	Parent	It returns the parent window of the current window.	
	Screen	It returns the screen object for the window.	
	screenX	It returns the X coordinate of the window relative to the screen.	
	screenY	It returns the Y coordinate of the window relative to the screen.	
	Self	It returns the current window.	
	Status	It sets the text in the status bar of a window.	
	Тор	It returns the topmost browser window that contains frames.	

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```
Code:
<html>
<body onload="openWin()" onunload = "myWindow.document.write("FUN WITH</pre>
SCRIPTING");">
      <script>
myWindow;
                   function openWin()
       myWindow = window.open("", "myWindow", "width=200,height=100");
myWindow.document.write("WELCOME TO SCRIPTING");
                   function closeWin()
                    myWindow.close();
     alert("Fun with SCripting");
             </script>
             </body>
             </html>
                               Output:
  abou...
                  ×
   (i) about:blank
   WELCOME TO
   SCRIPTING
```

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c)	Write an HTML script that displays names of different brands of Laptop and	4 M
	an image by default as:	
	• Lenovo • HP Image	
	• DELL  When the mouse moves over the specific brand name the script must display the image of respective Laptop in the adjacent box.	
Ans	Code: <html></html>	Designing of form-1M  Any relevant
	<head></head>	Any relevant

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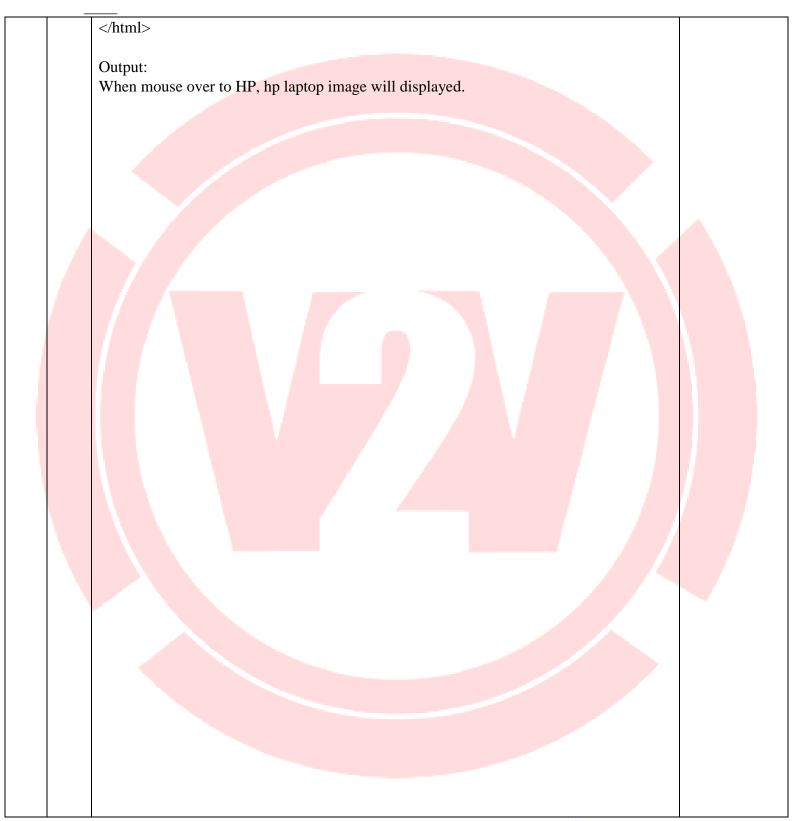
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```
<title>
                                                                    logic-3M
text rollovers</title>
<script> b=new
Image; r=new
Image; g=new
Image;
if(document.images)
b.src='vv.png';
r.src='hp.png';
g.src='dell.png';
} else
b.src=":
r.src=";
g.src=";
document.clr=";
</script>
</head>
<body>
<l
<a onmouseover="document.clr.src='vv.png'">
<b><u>Lenovo</u></b></a>
<a onmouseover="document.clr.src='hp.png'">
<b><u>HP</u></b></a>
<a onmouseover="document.clr.src='dell.png""></a>
<b><u>DELL</u></b></a>
</H2>
<a><img height="200" src="vv.png" width=400" name="clr"></a> 
</body>
```





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Lenovo
 HP
 DELL

 Lenovo
 HP
 DELL

Give syntax of and explain the use of SetTimeOut() function with the help of suitable example.

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Ans		Use of
	<u>Use of setTimeout()</u>	SetTimeOut
	The setTimeout() method executes a block of code after the specified time. The method	1M
	executes the code only once.	Syntax-1M
	The commonly used syntax of JavaScript setTimeout is:	Example-2N
	setTimeout(function, milliseconds);	
	Its parameters are:	
	function - a function containing a block of code	
	milliseconds - the time after which the function is executed	
	The setTimeout() method returns an intervalID, which is a positive integer.	
	Example: Display a Text Once After 3 Second	
	<script></th><th></th></tr><tr><th></th><th>function greet()</th><th></th></tr><tr><th></th><th>{</th><th></th></tr><tr><th></th><th>document.write('Hello world');</th><th></th></tr><tr><th></th><th>}</th><th></th></tr><tr><th></th><th>setTimeout(greet, 3000);</th><th></th></tr><tr><th></th><th>document.write('This message is shown first');</th><th></th></tr><tr><th></th><th></script>	
	In the above program, the setTimeout() method calls the greet() function after 3000 milliseconds (3 second).	
	Hence, the program displays the text Hello world only once after 3 seconds.	
e)	State the use of hiding the JavaScript. Explain the steps needed to accomplish it and	4 M
	describe the process.	
	Parameter and Pa	

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	Ans	You can hide your JavaScript from a visitor by storing it in an external file on your web  Use-21	M
		server. The external file should have the .js file extension. The browser then calls the external file whenever the browser encounters a JavaScript element in the web page. If you look at the source code for the web page, you'll see reference to the external .js file, but you won't see the source code for the JavaScript.	
		<pre>webpage.html <html> <head> <script languages="javascript" src="mycode.js" type="text/javascript"> </script> <body> <htable b2="" c="" click="" context="" disabled="" is="" mean="" on="" princet="" several=""></htable></body></head></html></pre>	
		<pre><h3> Right Click on screen, Context Menu is disabled</h3>  mycode.js window.onload=function() { document.addEventListener("contextmenu", function(e) { e.preventDefault(); }, false); }</pre>	
5.		Attempt any <u>TWO</u> of the following: 12 M	[
	a)	Write a JavaScript that demonstrates use of floating menu alongwith respective HTML script.	

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A	ns Code:	Any relevant
	<html></html>	logic or
	<title>Example</title>	example-6M
	<style></th><th></th></tr><tr><th></th><th>body {</th><th></th></tr><tr><th></th><th>background-image: url('/pix/samples/bg1.gif');</th><th></th></tr><tr><th></th><th>}</th><th></th></tr><tr><th></th><th>main {</th><th></th></tr><tr><th></th><th>margin-bottom: 200%;</th><th></th></tr><tr><th></th><th>}</th><th></th></tr><tr><th></th><th>.floating-menu {</th><th></th></tr></tbody></table></style>	

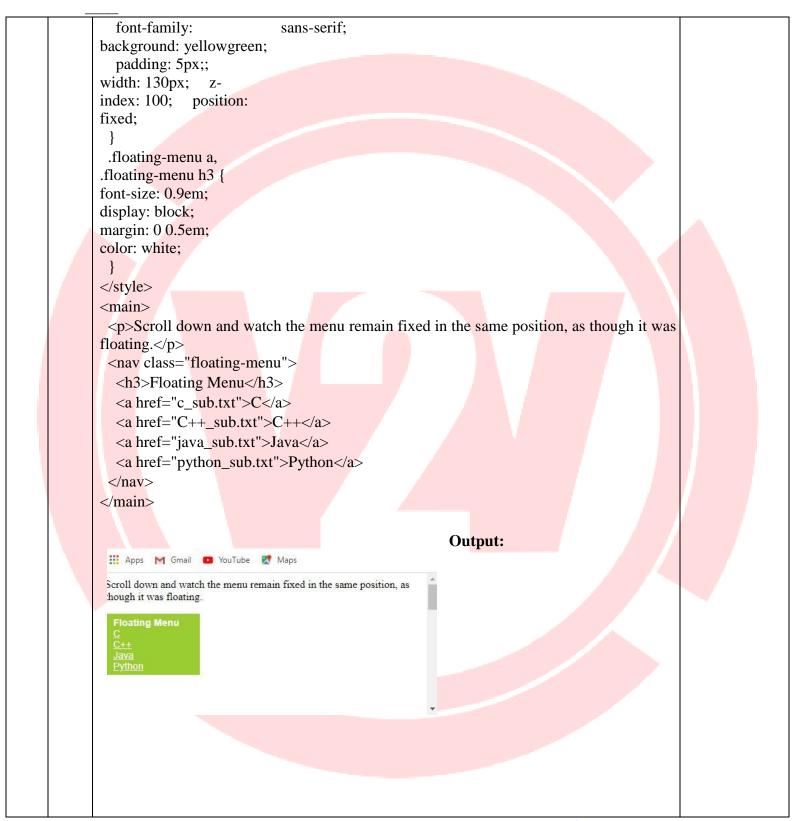


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Floating Menu

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<b>b</b> )	Form regular expressions for following :	6 M
Ans	<ul> <li>i) Validation of email address.</li> <li>ii) Validation of adhaar card. Format is dddd - dddd - dddd</li> <li>(iii) Validation of phone number. Format is (ddd) -(dddddddd)</li> <li>i) Regular expression for Validation of email address:</li> </ul>	Any valid
Alls	var validRegex = /^[a-zA-Z0-9.!#\$%&'*+/=?^_`{ }~-]+@[a-zA-Z0-9-]+(?:\.[a-zA-Z09-]+)*\$/;  ii) Validation of adhaar card Format is dddd - dddd - dddd  Regular expression for Validation of adhaar card /^[2-9]{1}[0-9]{3}\s[0-9]{4}\s[0-9]{4}\$/gm  iii) Validation of phone number. Format is (ddd) -(ddddddd)  Regular expression for Validation of phone number: var re = /^[\+]?[(]?[0-9]{3}[)]?[-\s\.]?[0-9]{3}[-\s\.]?[0-9]{4,6}\$/im;s	Any valid regex for emailed-2M  Any valid regex for adhaar card-2M  Any valid regex for phone no-2M

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<b>c</b> )	6 M
(c)	Write HTML and respective JavaScript such that
	(i) Webpage displays three checkboxes as:
	SELECT BEVERAGE: TEA
	COFFEE
	SOFT DRINK
	(ii) When a beverage is selected a dropdown list with options as below
	appears on page:
	(a) If "TEA" option is checked dropdown list contains
	Green tea
	Milk tea
	Black tea
	(b) If "COFFEE" option is selected dropdown list contains.
	Capaccino
	Latte
	Expression
	Expression
	Expression
	(c) If "SOFT DRINK" option is selected dropdown list contains

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Ans	Code:	Designing of
	<html></html>	form-2M
	<body></body>	A
	<html></html>	Any relevant
	<script type="text/javascript"></td><td>script-4M</td></tr><tr><td></td><td>function modifyList(x)</td><td></td></tr><tr><td></td><td>{</td><td></td></tr><tr><td></td><td>with(document.forms.myform)</td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td>if(x == 1)</td><td></td></tr><tr><td></td><td>{</td><td>A .</td></tr><tr><td></td><td>optionList[0].text="Green Tea";</td><td></td></tr><tr><td>_/</td><td>optionList[0].value=1;</td><td></td></tr><tr><td></td><td>optionList[1].text="Milk Tea ";</td><td></td></tr><tr><td></td><td>optionList[1].value=2;</td><td></td></tr><tr><td></td><td>optionList[2].text="Black Tea";</td><td></td></tr><tr><td></td><td>optionList[2].value=3;</td><td></td></tr><tr><td></td><td>}</td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td>if(x == 2)</td><td></td></tr><tr><td></td><td>{</td><td></td></tr><tr><td></td><td>optionList[0].text="Capaccino";</td><td></td></tr><tr><td></td><td>optionList[0].value=1;</td><td></td></tr></tbody></table></script>	

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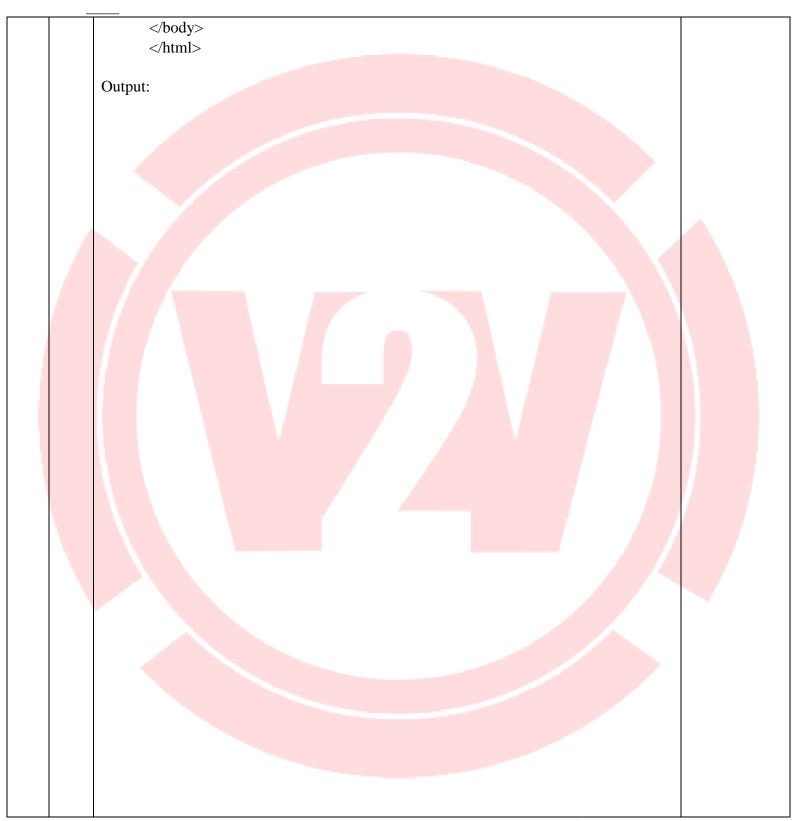
```
optionList[1].text="Latte";
     optionList[1].value=2;
     optionList[2].text="Expression";
     optionList[2].value=3;
 if(x == 3)
     optionList[0].text="MAAZA";
     optionList[0].value=1;
     optionList[1].text="SPRITE";
     optionList[1].value=2;
     optionList[2].text="COKA-COLA";
      optionList[2].value=3;
      </script>
      </head>
      <body>
      <form name="myform" action=" " method="post">
 Select Beverage: 
             type="checkbox"
                                 name="grp1"
 <input
                                                   value=1
onclick="modifyList(this.value)"> TEA
<input type="checkbox" name="grp1" value=2 onclick="modifyList(this</pre>
COFFEE
<input type="checkbox" name="grp1" value=3 onclick="modifyList(this</pre>
SOFT DRINK
  <select name="optionList" size="3">
      <option value=1>Kiwi
      <option value=1>Pine-Apple
      <option value=1>Apple

  </select>
      </form>
                                                                checked="true"
```





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☐ TEA Select Beverage: COFFEE ☐ SOFT DRINK Capaccino ... Latte Expression ~ 6. Attempt any **TWO** of the following: 12 M a) List and explain any six form events. 6 M One event Ans with **Event Handler Description** explanationonfocus When the user focuses on an element 1M each onsubmit When the user submits the form When the focus is away from a form element (The onblur event onblur occurs when an object loses focus.) onchange When the user modifies or changes the value of a form element keydown The event occurs when the user is pressing a key keypress The event occurs when the user presses a key The event occurs when the user releases a key keyup onclick Fires on a mouse click on the element ondblclick Fires on a mouse double-click on the element Fires when a mouse button is pressed down on an element onmousedown Fires when the mouse pointer is moving while it is over an element onmousemove Fires when the mouse pointer moves out of an element onmouseout Fires when the mouse pointer moves over an element onmouseover Fires when a mouse button is released over an element onmouseup onwheel Fires when the mouse wheel rolls up or down over an element oncontextmenu oncontextmenu event occurs when the user right-clicks on an element to open the context menu.

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<b>b</b> )	Write a JavaScript that sets a crawling status bar message to the webpage.  Message is "Welcome to the Mystic World of JavaScript". The message must start crawling when the webpage gets loaded.	6 M
Ans	<html> <head> <title>Scrolling Text</title> <script language="JavaScript"> var scrollPos = 0; // initial position to start status bar var maxScroll = 100; // maximum allowed position</th><th>Any relevant script-6M</th></tr></tbody></table></script></head></html>	

```
var blanks = "";
function scrollText(text, milliseconds)
window.setInterval("displayText(""+text+"")", milliseconds);
function displayText(text)
window.defaultStatus = blanks + text;
++scrollPos;
blanks += " ";
if(scrollPos > maxScroll)
{ scrollPos =
0; blanks =
</script>
</head>
<body onload="scrollText('Welcome to the Mystic World of JavaScript".', 300)">
Watch the text scroll at the bottom of this window!
</body>
</html>
```

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c)	i)Design frameset tag for representing following layout:	6 M
	Frame 1	
	Frame 2 Frame 4 Frame 3	
-/4	ii) List any three properties of regular expression objects and state their use.	
Ans	i) Code: <html> <head> <title>Create a Frame</title> </head> <frameset border="5" bordercolor="red" frameborder="1" noresize="" rows="10%,*"> <frame src="frame1.html"/> <frameset border="3" cols="33%,33%,*">  **Transport of the color is a significant of the color is a significan</frameset></frameset></html>	i) correct html code-3M ii) 3 properties with use-3M each
	<frame src="frame2.html"/> <frame src="frame4.html"/>	

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	^
	Frame 1
Frame 2	Frame 4 Frame 3
ii) property	Property & Description
constructor	Specifies the function that creates an object's prototype.
global	Specifies if the "g" modifier is set.
ignoreCase	Specifies if the "i" modifier is set.
	The index at which to start the next match.
lastIndex	
lastIndex multiline	Specifies if the "m" modifier is set.





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<body> <script type = "text/javascript"> var re = new RegExp( "string" ); if ( re.ignoreCase )

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```
document.write("Test1-ignoreCase property is set");
} else
{
    document.write("Test1-ignoreCase property is not set");
}

re = new RegExp( "string", "i" );

if ( re.ignoreCase )
{
    document.write("<br/>Test2-ignoreCase property is set");
    } else
    {
        document.write("<br/>Test2-ignoreCase property is not set");
    }
    </script>
    </body>
    </html>
```

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