Marking Scheme Multimedia and Web Technology Class: XII Session 2017-18

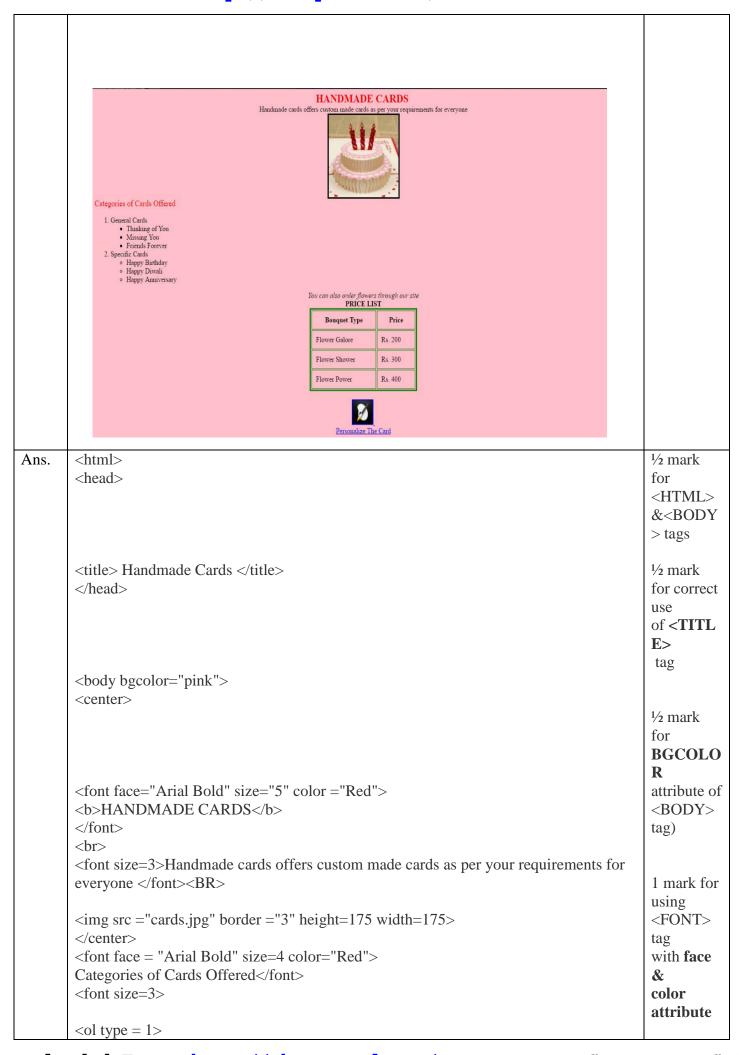
Q1(a)	Shreya wants to work examples of common d			_	software. Sugges	st her any two	1
Ans	MySQL, MS Access, N			cle etc.			
(1-)	(½ mark each for any two example)			1			
(b) Ans.	What is field in a database? Give an example. The column of a table is known as field.			1			
Alls.	Example: EmpNo, EmpName etc.						
	(½ mark for correct answer)						
	(½ mark for any one e.						
(c)	Define and identify the primary key in the following table: Table: Stationary				2		
		S_No	S_Name	S_Qty	PurchaseDate		
		101	Pen	102	2011-12-12		
		102	Pencil	201	2013-02-21		
		103	Eraser	90	2011-09-09		
		109	Sharpener	90	2012-08-31		
		113	Clips	900	2011-09-09		
	Primary key. Primary key: S_No or S (1 mark for correct defi (1 mark for identification)	inition)	marv kev)				
(d)	Shweta wants to delete the records where the "FirstName" is "Rahul" in the 'Emp' Table. She has entered the following SQL statement. An error is being displayed. Rewrite the correct statement. DELETE 'Rahul' FirstName FROM Emp;			1			
Ans	DELETE FROM Emp V OR DELETE FROM Emp V (1 mark for correct ans	WHERE WHERE	FirstName =		<u>'</u>		
(e)	Differentiate between JI	PEG and	GIF image.				2
Ans.	IDEC:		T	CTE -			
	JPEG image	nt Dhat-	aranhia 1	GIF stope		arahan sa	
	1. JPEG stands for Joi Experts Group.	ш Рпосс		GIF stand ormat.	ds for Graphic Int	erchange	
	2. JPEG images being static images 2. GIF allows animation.						
	does not allow animati	on.			· 		
	3. JPEG images				est for images t	hat have	
	displaying real world p				text and line art.		
	4. JPEG files are more compressed 4. GIF files are less compressed						
	than GIF files hence JEPG files are hence take more storage space.						
	more compact than GI				<i>U</i> 1 ····		

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(1 mark each for any two correct difference) (f) Explain the term "Publishing a Flash Movie"? Name the extension of the file created when a Flash movie is published using a Macintosh projector. Ans. Publishing is the process of preparing movie files to be uploaded on the website for users by converting the Flash .FLA file to another format like .swf, .html etc. The extension of the file created when a Flash movie is published using a Macintosh projector is here.	2
when a Flash movie is published using a Macintosh projector. Ans. Publishing is the process of preparing movie files to be uploaded on the website for users by converting the Flash .FLA file to another format like .swf, .html etc The extension of the file created when a Flash movie is published using a	2
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The extension of the file created when a Flash movie is published using a	or
Magintagh projector is have	
Macintosh projector is .hqx.	
(1 mark for correct explanation)	
(1 mark for correct extension)	
(g) Mention any one use of Multimedia in healthcare.	1
Ans. • Doctors can be trained by looking at a virtual surgery	
 They can simulate how human body is affected by diseases spread by viruses of 	or
bacteria.	
(1 mark for any one use)	
Q2 Answer the following question based on Macromedia Flash:	
(a) What is Frame rate?	1
Ans. Frame rate is used to set the speed of animation. If frame rate is low then animation	
will be slow otherwise it is fast. Frame rate is expressed in frames per second (FPS).	
(1 mark for the correct answer)	
(b) Differentiate between Motion Tweening and Shape Tweening.	2
Ans. Motion Tweening Shape Tweening	
1. Motion tweening is used to 1. Shape tweening is used to	
change the position of an change the shape of an object.	
object over time.	
2. Motion tween works only 2. Shape tween works with any	
with symbols. object.	
3. Example:-	
(1 mark each for any two correct differences)	
(c) Name any two movie file formats.	1
Ans. Movie file formats are:- AVI, MPEG, MOV, SWF, DAT	
(½ marks each for any two correct Movie Format)	
(d) Define layer. Write one advantage of using layers in Flash.	2
Ans. A layer is like a transparent sheet stacked on top of each other which may contains	
different scenes of a flash movie.	
Advantage: - It is used to organise the artwork, photographs, text and animation in a	
single file.	
(1 mark for correct definition)	
(1 mark for Advantage)	
(e) Observe the figure given below and do as directed:	4

	• The object on the left hand side shows the position and size of the image for	
Ans.	 frame 1. The colour of the object is blue. The object on the right hand side shows the position and size of the image for frame 20. The colour of the object is green. The circle on frame 1 moves and transforms into an ellipse on frame 20. Write the procedure and property settings for animating the above scenario. The following steps have to be followed to animate the given scenario: Select frame 1 from the timeline. Create the blue coloured object given on the left hand side. Select frame 20 and insert a Keyframe. Reposition the object by dragging from left hand side to right hand side. Change the size and shape of the object using Free Transform tool. Change the colour of the object by using fill color from the toolbox. Click on anywhere between frame 1 and frame 20. 	½ x 8 = 4
	• Select shape tween from properties palette.	
	(½ mark for each correct step)	
Q3	(full marks for any other correct equivalent way for the same animation) Answer the following questions based on HTML	
4 5	THE TOTAL THE TOTAL THE PROPERTY PROPERTY OF TAXABLE	
(a)	Write the HTML command to create a button in a form with the caption "Click Me"	1
Ans.	<pre><input type="BUTTON" value="Click Me"/> (½ mark for naming the <input/> tag) (½ mark for TYPE & VALUE attributes)</pre>	
(b)	Identify the errors in the following HTML code. Also write the correct code. <ol start="f" type="a">	1
	The start attribute should be assigned a numeric value. Correct code is: <ol <u="" type="a">START=6> (½ mark for identification of error) (½ mark for correction)	
(c)	 Write the HTML code to generate a Web Page in the format given below: Consider the following while writing the HTML code: Title of the page should be "Handmade Cards". Background colour should be "Pink". Text style of the main heading should be "Arial Bold" and color should be red. Image used is "cards.jpg". Table in the center of the webpage and should have a 3 pixel thick border of color green and the spacing between cell content and border is 10 pixels. Use the concept of nested lists for creating the specified lists. The bottom image (link.jpg) and the text "Personalize The Card" are links to another page "person.html". 	8



```
General Cards 
         Thinking of You 
         Missing You 
                                                            1 mark for
         Friends Forever 
                                                            correct use
         of <IMG>
    Specific Cards 
         tag
         Happy Birthday 
                                                            with heigh
         Happy Diwali 
         Happy Anniversary 
                                                            width,
         border
<i><center>You can also order flowers through our site</center></i>
(1 mark
cellspacing = 2>
                                                            for proper
                                                            use of list
                                                            and TYPE
                                                            attributes)
                                                            1 mark for
<caption>
                                                            using
  <b>PRICE LIST</b>
                                                            <TABLE
</caption>
                                                            > tag with
                                                            ALIGN,
  BORDER,
    Bouquet Type 
                                                            BORDER
    Price 
                                                            COLOR,
  CELLPA
  DDING
    Flower Galore 
    Rs. 200 
   Flower Shower 
     Rs. 300 
                                                            ½ mark
  for use
  of <CAPT
     Flower Power 
                                                            ION>tag
     Rs. 400 
  \langle br \rangle
                                                            ½ mark
  <center>
                                                            for proper
  <a href ="person.html">
                                                            use
  <img src = "link.jpg" border = 2 height=50 width=50>
                                                            of \langle TR \rangle,
                                                            <TH> &
  <hr>>
                                                            <TD> tag
  Personalize The Card
  </a>
  </center>
  </font>
  </body>
```

	(½ mark for correct use of <html> and <body> tags) (½ mark for correct use of <title> tag) (½ mark for BGCOLOR attribute of <BODY> tag) (1 mark for correct use of tag with face & color attribute) (1 mark for correct use of tag with height, width, border) (1 mark for correct use of list and TYPE attributes) (1 mark for using <TABLE> tag with ALIGN,BORDER, BORDERCOLOR,CELLPADDING) (½ mark for correct use of <CAPTION>tag) (½ mark for proper use of <TR>, <TH> & <TD> tag) (½ mark for use of <CENER> tag) (1 mark for proper use of <A> tag with HREF attribute)</th><th>1/2 mark for use of <CEN ER> tag 1/2 mark for proper use of <A> tag with HRE F attribute</th></tr><tr><th>Q4.</th><th>Answer the following questions based on PHP:</th><th></th></tr><tr><td>Q4.</td><td>Answer the following questions based on 1 III.</td><td></td></tr><tr><td>(a)</td><td>Write any two features of PHP.</td><td>1</td></tr><tr><td>Ans.</td><td> Two features of PHP are:- PHP is platform independent i.e PHP code runs on various platforms like Linux, Unix, Windows etc. PHP is server-side script and executes on web server. (½ marks each for any two correct PHP features) </td><td></td></tr><tr><td>(b)</td><td>Write the output of the given code: <pre> <pre> <pre> <pre> <pre></td><td>2</td></tr><tr><td>Ans.</td><td>16 9 (1 mark for each line of output) (Deduct ½ mark if line break is not considered)</td><td></td></tr><tr><td>(c)</td><td>What is a constant? Declare a constant MAX and assign the value 10.</td><td>2</td></tr><tr><td>Ans.</td><td>A constant is a name or an identifier whose value is fixed and cannot change during the execution of the program. define('MAX',10); (1 mark for correct definition of constant) (1 mark for declare a constant MAX with value 10)</td><td></td></tr><tr><td>(d)</td><td>Give output of the following statements: (i) echo 10/5+2*4%8; (ii) echo strtolower("PRODUCT ACTIVATED"); (iii) echo date("M-d-Y", mktime(0,0,0,8,42,2017));</td><td>3</td></tr></tbody></table></title></body></html>	

```
(i) 2
Ans.
       (ii) product activated
       (iii) Sep-11-2017
       (1 mark for each correct output)
       Rewrite the following code using switch case
(e)
                                                                                            2
              if(Type=='T')
                echo "DISCOUNT ON TV";
              else if($Type=='M')
                echo "DISCOUNT ON MOBILE PHONE";
              else if($Type=='C')
                echo "DISCOUNT ON CAMERAS";
              else
                echo "NO DISCOUNT";
       switch($Type)
Ans.
            case 'T': echo "DISCOUNT ON TV";
                      break;
           case 'M': echo "DISCOUNT ON MOBILE PHONE";
                     break;
           case 'C': echo "DISCOUNT ON CAMERAS";
                     break;
           default: echo "NO DISCOUNT";
       (½ mark for each correct case)
       (Deduct ½ mark if break is not considered)
       Answer the following questions based on PHP:
Q5.
       What is PHP global variable $_REQUEST?
(a)
       $_REQUEST is a super global variable which is used to collect data after submitting
Ans.
       an HTML form.
       (1 mark for correct answer)
       Following is the code to count total number of characters from a text file. Fill in the
(b)
                                                                                            2
       blanks so that this code can work:
       <? php
        $file = ____("data.txt", "r");
        $ch = 0;
       while(_____($file))
         $letter=_____;
         $ch = ;
       echo "Number of characters:", $ch;
       fclose($file);
       ?>
       <? Php
Ans.
        $file = fopen("data.txt", "r");
        sch = 0;
       while(!feof($file))
                    $letter=<u>fgetc($file);</u>
                    $ch=$ch+1;
       echo "Number of characters:", $ch;
       fclose($file);
       ?>
```

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(1/2 mark each for the correct answer)
        Rewrite the following code after removing errors with each correction underlined.
(c)
                                                                                                   2
        <?
        value=5;
        while($value!==0)
          $r_digit=$value%10;
        $value/=10;
        ECHO $r_digit;
Ans.
        <?<u>php</u>
               $value=0;
               while($value!=0)
                      $r digit=$value%10;
                      $value/=10;
               echo $r_digit;
       ?>
       (½ mark for correcting each error)
(d)
       Name the built-in functions to be used in the following situations:
                                                                                                   2
               (i) To remove backslash from a string.
               (ii) To return number of days in a month for specified year.
        (i) stripslashes()
Ans.
        (ii) cal_days_in_month()
        (1 mark for each correct function name)
        What is a cookie? Write the PHP code to set a cookie named "car" and value "BMW".
(e)
       The cookie should expire after two days. Also Display the value stored in $ COOKIE
Ans.
        A cookie is a small piece of data that the web server sends to a web browser so that the
        web server can keep track of user's activity on a particular website.
        When a user uses a computer to visit a website, the website stores some basic
        information about the visit on the hard disk of the computer. It records the user's
        preferences while using the site. This stored information is called a 'cookie'.
        <?php
        $cookie_name = "car";
        $cookie_value = "BMW";
        setcookie($cookie_name, $cookie_value, time() + (86400 * 2), "/"); // 86400 = 1 day
        ?>
        <html>
        <body>
        if(!isset($_COOKIE[$cookie_name])) {
          echo "Cookie named " . $cookie_name . " is not set!";
          echo "Cookie " . $cookie_name . " is set!<br>";
          echo "Value is: " . $_COOKIE[$cookie_name];
```

```
?>
        </body>
        </html>
        (1 mark for correct definition of cookie)
        (1 mark for correct use of setcookie() function )
        (1 mark for displaying the value stored in $_COOKIE)
Q6
        Answer the following questions based on JavaScript:
        Write the code using do while loop without effecting the output:
(a)
               <script language="javascript">
               var prod,b;
               prod=1;
               for(b=1;b<=10;b+=3)
                     document.write(b);
                     prod=prod+b*b;
               }
                     document.write("the final product is" & prod);
             </script>
        <script language="javascript">
Ans.
        var prod,b;
        prod=1;
        b=1;
        do
        {
           document.write(b);
           prod=prod+b*b;
           b+=3;
        \}while(b<=10);
        document.write("the final prod is" & prod);
        </script>
        (½ mark each for block {} statements)
        (1/2 mark for correct do...while)
(b)
        Explain Conditional operator with the help of an example.
        It is also known as Ternary operator as it requires 3 operands. It checks the condition,
Ans.
        if it is evaluated as true it goes to True part else the False part. Syntax:
        Condition?True:False
        Example:- Ans=(x>y?x:y);
        If x=5 and y=3
        As x>y i.e. 5>3 condition is true, Ans. is assigned the value of x, else Ans will get the
        value of y.
        1mark for explanation
        1 mark for correct example
        OR
        Full 2 marks if the difference is explained only with the help of an example)
         Analyse the given program segment and determine how many times the loop will be
                                                                                                     2
(c)
         executed. What will be the value of A after loop is terminated.
             var A, B;
             A = 5;
             B = 10;
             while(A>=1)
                      document.Write(A+B);
                      A = A - 1;
```

	B = B - 2;	
	}	
Ans.	Loop will execute 5 times.	
	Value of A after the loop terminates is 0.	
	(1 mark each for correct answer)	
(d)	Write the code to display a form as shown below along with the javascript code to achieve the specified task. User should be able to enter the number of calls and the total amount payable gets displayed when he presses "calculate" button. NUMBER OF CALLS	4
	CALCULATE	
	The total amount payable will be calculated based on the following rate list:	
	Rs. 1.00 per call for the 1 st 100 calls	
	Rs. 1.20 per call for the next 100 calls	
	Rs. 1.50 per call for the next 50 calls	
	Rs. 2.00 per call for more than 250 calls	
	110. 2.00 per cuir for more than 200 cuirs	
Ans.	<html></html>	
	<head></head>	
	<script language="javascript"></td><td></td></tr><tr><td></td><td>function calc()</td><td></td></tr><tr><td></td><td>var consm, amount=0;</td><td></td></tr><tr><td></td><td>consm=document.form1.f1.value;</td><td></td></tr><tr><td></td><td>if(consm<=100)</td><td></td></tr><tr><td></td><td>amount=consm*1.0</td><td></td></tr><tr><td></td><td>else if(consm<=200)</td><td></td></tr><tr><td></td><td>amount=100+1.2*(consm-100)</td><td></td></tr><tr><td></td><td>else if(consm<=250)</td><td></td></tr><tr><td></td><td>amount=100+1.2*100+1.5*(consm-200)</td><td></td></tr><tr><td></td><td>else</td><td></td></tr><tr><td></td><td>amount=100+ 1.2*100 + 1.5*50 +2.0 *(consm-250)</td><td></td></tr><tr><td></td><td>document.write("amount payable is " + amount);</td><td></td></tr><tr><td></td><td>} //CCD IDTs</td><td></td></tr><tr><td></td><td></script>	
	 form nome-"form 1">	
	<form name="form1"></form>	
	NUMBER OF CALLS cinput name=f1 type=tayt	
	<pre><input name="f1" type="text"/> <bre></bre></pre>	
	<pre><input bill="" name="b1" onclick="calc()" type="button" value="CALCULATE"/></pre>	
	(1 mark for form)	
	(2 marks for function)	
	(½ mark for handling ONCLICK() event)	
	(½ mark for displaying output)	
Q7	Answer the following questions based on Communication and network concepts:	
a)	How firewall protect our network?	1
Ans.	A firewall is a part of computer system or network that is designed to block	

		1
	unauthorized access while permitting authorized communications. It is a device or set	
	of devices configured to permit, deny, encrypt, or proxy all(in and out) computer traffic	
	between different security domains based upon a set of rules and other criteria.	
	(1 mark for appropriate explanation)	
(b)	Write one advantage of Bus Topology of network. Also, illustrate how 4 computers can	1
	be connected with each other using bus topology of network.	
Ans.	Cable length required for this topology is the least compared to other networks.	
	Illustration of 4 computers connected with each other using bus topology of network.	
	(½ Mark for writing one correct advantage)	
	(½ Mark for drawing / writing correct illustration OR any other diagrammatic	
	representation for star topology)	
(a)	Explain the following terms:	2
(c)	i. GSM	2
	ii. CDMA	
Δ		
Ans.	GSM: Global System for Mobiles, it is the international standard for wireless	
	technology. GSM allows users to utilize one phone and one number in many countries	
	throughout the world.	
	CDMA: Code Division Multiple Access: a digital wireless telephony transmission	
	technique. CDMA is an example of multiple access, where several transmitters can	
	send information simultaneously over a single communication channel.	
/ 1\	(1 mark for each correct definition)	
(d)	Write two advantages of using open source software over proprietary software.	1
Ans.	(i) Source Code available for modification and redistribution	
	(ii) Freely available for usage	
	(½ mark for each correct advantage)	
(e)	What is the significance of UNICODE?	1
Ans.	UNICODE is a universal coding standard whose main objective is to enable a single,	
1 11151	unique character set capable of supporting all characters from all scripts, as well as	
	symbols, that are commonly utilized for computer processing throughout the globe.	
	(1 mark for correct explanation)	
	(1 mark for correct explanation)	
(f)	The Cyber Skill Development Organisation has set up its new Branch at Nagaland for	
(1)	its offices and web based activities. It has 4 Wings of buildings as shown in the	
	diagram	
	Glagiani	
	Z	

		1	
	Center to center distance between various blocks		
	Wing X to Wing Z 30m	1	
	Wing Z to Wing Y 50m		
	Wing Y to Wing X 125s	m	
	Wing Y to Wing U 60m	1	
	Wing X to Wing U 155		
	Wing Z to Wing U 110	m	
	Name to a first or a second of the second of		
	Number of computers Wing V		
	Wing X 40 Wing Z 120		
	Wing Z 120 Wing Y 30		
	Wing U 10		
	wing 0		
(i)	Suggest a most suitable cable layout of connections between	the Wings and topology.	1
Ans.	(i) Most suitable layout		
Alls.	(1) Wost suitable layout		
	Z		
	50m		
	/30m 110 m		
	X U		
	(1 mark for correct layout)		
(ii)	Suggest the most suitable place (i.e, Wing) to house the serve	er of this organization with	1
A .	a suitable reason with justification.		
Ans.	Wing Z as it has largest number of computers.		
	(½ mark for naming the correct block)		
(iii)	(½ mark for correct justification) Suggest the placement of the following devices with justification	tion:	1
(111)	o Repeater	uon.	1
	o Hub/Switch		
	O Huo/Switch		
Ans.	A repeater needs to be placed along the wire between wings	Z to U as the distance	
	between them is more than 70 m.		
	A hub/switch each would be needed in all the wings, to inter	connect the group of	
	cables from the different computers in each wing.		

	(½ mark for correct placement) (½ mark for correct justification)	
(iv)	The organization is planning to link its head office situated in Delhi with offices at Nagaland. Suggest an economic way to connect it; company is ready to compromise on the speed of connectivity. Justify your answer.	1
Ans.	TCP/IP Dial Up as it is an economic option with a reasonable speed. (½ mark for correct technology) (½ mark for correct justification)	

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