

**Scoring Indicators Web Programming -Code-5133**

Version-A

Qn No	Qn No	Scoring Indicators	Split Score	Sub Score	Total Score
1	1	Multipurpose Internet Mail Extensions (MIME)- Internet standard that extends the format of email to support text other than ASCII, Non-text attachments, Message bodies with multiple parts etc	2	2	10
	2	CSS stands for Cascading Style Sheets .Styles define how to display HTML elements	2	2	
	3	WAMP ( Windows, Apache, MySQL, PHP )	2	2	
	4	mysql_connect(), mysql_close(),mysql_select_db(),mysql_query(),mysql_fetch_row() (Any two)	2*1	2	
	5	Web hosting is a service that allows organizations and individuals to post a website or web page onto the Internet. A web host provides the technologies and services needed for the website or webpage to be viewed in the Internet	2	2	
2	1	XHTML stands for EXtensible HyperText Markup Language. XHTML DOCTYPE is mandatory XHTML elements must be properly nested XHTML elements must always be closed XHTML elements must be in lowercase XHTML documents must have one root element XHTML Attribute names must be in lower case(Any 4)	4*1.5	6	
	2	<ul> - An unordered list. This will list items using plain bullets. <ol> - An ordered list. This will use different schemes of numbers to list your items. <dl> - A definition list. This arranges items in the same way as they are arranged in a dictionary.	3*2	6	

3	<p>This type of style is defined inside the head tag of the page. The style is applied to entire web page. The style defined here get priority over the external styles but before the Inline styles <b>( 3 marks)</b></p> <p><b>Example</b> <span style="float: right;">&lt;html&gt;</span></p> <pre>&lt;head&gt; &lt;style type="text/css"&gt; p { font-family: verdana, arial, sans-serif; background-color: #ffff00; } &lt;/style&gt;&lt;/head&gt; &lt;body &gt; <b>(3 marks)</b> ..... .....</pre>	3+3	6	
4	<p>The Document Object Model (DOM) is the model that describes how all elements in an HTML page, are related to the topmost structure: the document itself. By calling the element by its proper DOM name, we can influence it. When a web page is loaded, the browser creates a Document Object Model of the page. The HTML DOM model is constructed as a tree of Objects: <b>(3 marks)</b></p> <p><b>Example( 3 marks)</b></p>	3+3	6	
5	<p>Advantages of PHP</p> <ul style="list-style-type: none"> <li>Open source</li> <li>High Speed</li> <li>Easy to use</li> <li>Stable</li> <li>Powerful library support</li> <li>Built-in database connection modules</li> <li>Can be run on many platforms, including Windows, Linux and Mac</li> <li>Dynamic</li> <li>Flexibility</li> </ul> <p><b>(Explain Any 6)</b></p>	6*1	6	42
6	<p>Redirection in PHP can be done using the header() function. <b>(2 Marks)</b></p> <p>(1)To setup a simple redirect, simply create an index.php file in the directory to redirect from with the</p>			

	<p>following content:</p> <p>&lt; ?php header("Location: http://www.redirect.to.url.com/"); ?&gt;(2 Marks)</p> <p>(2) redirect can also be a file, like so:</p> <p>&lt;?php header("Location: anotherDirectory/anotherFile.php"); ?&gt;</p> <p>Files can be of any type including but not limited to HTML, python, php, cgi, perl, and compiled cgi programs.(2 Marks)</p>	2+2+2	6	
7	<p>mysql_connect() function opens a MySQL connection</p> <p><b>Syntax( 3 marks)</b></p> <p>mysql_connect(server,user,pwd,newlink,clientflag)</p> <p><b>Example (3 marks)</b></p> <pre>&lt;?php \$con = mysql_connect("localhost","mysql_user","mysql_pwd") ; if (!\$con) { die('Could not connect: ' . mysql_error()); } // some code mysql_close(\$con); ?&gt;</pre>	3+3	6	
<b>B</b>	<b>a</b>			

3	a	<p>(a)HTML frames are used to divide browser window into multiple sections where each section can load a separate HTML document. A collection of frames in the browser window is known as a frameset. The window is divided into frames in a similar way the tables are organized: into rows and columns.</p> <p>The &lt;frameset&gt; tag defines a frameset. The &lt;frameset&gt; element holds one or more &lt;frame&gt; elements. Each &lt;frame&gt; element can hold a separate document.</p> <p><b>Example(4 marks)</b></p> <p>(b) &lt;iframe&gt; tag specifies an inline frame. An inline frame is used to embed another document within the current HTML document.</p> <p><b>Example(4 marks)</b></p>	4+4	8	15
	b	<p><b>Web browser</b></p> <p>Browsers are basically software programs that allow to search for and view various kinds of information on the Web, such as web sites, video, audio, etc.</p> <p><b>Example: Microsoft Internet Explorer, Mozilla Firefox, Google Chrome( 3 marks)</b></p> <p><b>Web Server</b></p> <p>A web server is a computer program that delivers (serves) content, such as web pages, using the Hypertext Transfer Protocol (HTTP), over the World Wide Web.</p> <p><b>Example: Apache HTTP Server, Sun Java System Web Server, Microsoft Internet Information Services (IIS)( 4 marks)</b></p>	3+4	7	
4	a	HTML tags- <html>, <head>,			

		<body>,<frame>,<form>,<table>,<ul>,<b>,<p>,<h1>(Any 8 with example)	8*1	8	
	b	<p>get method A get method appends data to the URL in a query string. A get request limits the query string to a specific number of characters. A ? separates the query string from the rest of the URL in a get request. A name/value pair is passed to the server with the name and the value separated by an equals sign (=). Example(4 marks)</p> <p>post method A post request sends form data as an HTTP message, not as part of the URL. Large amounts of information must be sent using the post method. Example( 3 marks)</p>	4+3	7	15
5	a	CSS Lists, CSS Links, CSS Fonts, CSS Text Properties, CSS Border Properties, CSS Background Properties, CSS color (Any 4 with example)	4*2	8	
	b	<pre>&lt;script&gt; function validateform(){ var name=document.myform.name.value; var password=document.myform.password.value;  if (name==null    name==""){ alert("Name can't be blank"); return false; }else if(password.length&lt;6){ alert("Password must be at least 6 characters long."); } } &lt;/script&gt;</pre>			

		<pre> return raise; } } &lt;/script&gt; &lt;body&gt; &lt;form name="myform" method="post" action="abc.jsp" onsubmit="return validateform()" &gt; Name: &lt;input type="text" name="name"&gt;&lt;br/&gt; Password: &lt;input type="password" name="password"&gt;&lt;br/&gt; &lt;input type="submit" value="register"&gt; &lt;/form&gt; </pre> <p><b>form- 3 marks function -4 marks</b></p>	7	7	15
6	a	<p>External Style Sheet</p> <p>An external style sheet is ideal when the style is applied to many pages.</p> <p>With an external style sheet, you can change the look of an entire Website by changing one file.</p> <p>Each page must link to the style sheet using the&lt;link&gt;tag.</p> <p>The&lt;link&gt;tag goes inside the head section:</p> <pre> &lt;head&gt; &lt;link rel="stylesheet" type="text/css" href="mystyle.css" /&gt; &lt;/head&gt; </pre> <p><b>(4 marks)</b></p> <p><b>Example(4 marks)</b></p>	4+4	8	
	b	<pre> &lt;html&gt; &lt;head&gt; &lt;script&gt; function myFunction() { document.getElementById("demo").innerHTML = "Hello World"; } &lt;/script&gt; </pre>			15

		<pre> &lt;/head&gt; &lt;body&gt; &lt;p&gt;Click the button to trigger a function.&lt;/p&gt; &lt;button onclick="myFunction()"&gt;Click me&lt;/button&gt; &lt;p id="demo"&gt;&lt;/p&gt; &lt;/body&gt; &lt;/html&gt; </pre> <p><b>form- 3 marks function -4 marks</b></p>	7	7	
7	a	<p>File handling involves 4 tasks</p> <p>Opening a file- \$fp = fopen('filename', 'mode');</p> <p>Reading data from a file- fread(filepointer, no of bytes to read)</p> <p>Writing contents to another file- fwrite(filepointer, data);</p> <p>Closing a file- fclose(\$fp); <b>(4 Marks)</b></p> <p>Example <b>(4 Marks)</b></p>	4+4	8	
	b	<p>A cookie is often used to identify a user. A cookie is a small file that the server embeds on the user's computer. Each time the same computer requests a page with a browser, it will send the cookie too. With PHP, you can both create and retrieve cookie values.</p> <p>Creating a Cookie- setcookie() function</p> <p>Syntax</p> <p>setcookie(name, value, expire, path, domain);</p> <p>Retrieving a Cookie Value</p> <p>The PHP \$_COOKIE variable is used to retrieve a cookie value.</p> <p>Delete a Cookie</p> <p>When deleting a cookie you should assure that the expiration date is in the past. <b>(3 marks)</b></p> <p>Example <b>(4 marks)</b></p>	3+4	7	15
8	a	<p>An array can store one or more values in a single variable name. <b>(2 marks)</b></p> <p>3 Kinds of Arrays</p> <p>Numeric Array- A numeric array stores each element</p>			

		<p>with a numeric ID key.</p> <p>Example</p> <p>Associative Array- With associative arrays we can use the values as keys and assign values to them.</p> <p>Example</p> <p>Multidimensional Array- In a multidimensional array, each element in the main array can also be an array.</p> <p>Example(3*2=6 marks)</p>	2+6	8	15
	b	<p>PHP allows to store user information on the server for later use. Sessions work by creating a unique id (UID) for each visitor and store variables based on this UID. The UID is either stored in a cookie or is propagated in the URL.</p> <p>Examples of</p> <p>Starting a PHP Session- session_start() function</p> <p>Storing a Session Variable- PHP \$_SESSION variable</p> <p>Destroying a Session- unset() function</p> <p>( 4 marks)</p> <p>Example( 3 marks)</p>	4+3	7	
9	a	<p>Advantages of CMS</p> <p>It allows multiple users. ...</p> <p>It streamlines scheduling. ...</p> <p>It improves site maintenance. ...</p> <p>Design changes are simple. ...</p> <p>It helps to manage content. ... (Any 4)</p> <p>.</p> <p>.</p>	4*2	8	15
	b	<p>PHP Code</p> <p>1. To enter book details through an HTML web page-</p>			

		<p>form( 1 mark)</p> <p>2. Database connection details-mysql_connect()(2 mark)</p> <p>3. Create and insert book details into the database-create table and insert into(2 mark)</p> <p>4. Retrieve data from database using –mysql_query( 2 marks)</p>	7	7	
10	a	<p><b>Registering a Domain</b></p> <p>Domain names must be registered. When domain names are registered, they are added to a large domain name register. Information about the web site, including the IP address, is stored on a DNS server.A DNS server is responsible for informing all other computers on the Internet about the domain name and the web site address.</p> <p>Domains can be registered from domain name registration companies.These companies provide interfaces to search for available domain names, and they offer a variety of domain name extensions that can be registered at the same time.(4 Marks)</p> <p><b>Server space hiring</b></p> <p>Hiring some space on a web server to enable to 'store' website for the Internet is normally known as hosting. The term web site hosting describes the physical location of a website, or where the web site files physically 'live'. The levels of the hosting services vary and the cost of hosting your website will usually be measured by the amount of hosting server space you will need. The larger the size of your web site, the more server space needed for your site and hence a higher cost. A company that supplies this service is commonly known as a "hosting" or a host company. Normally, a company will host your website on their servers at a specified fee rate. (4 marks)</p>	4+4	8	15
	b	PHP Code			

	<ol style="list-style-type: none"><li>1. To enter employee details through an HTML web page- form(1 mark)</li><li>2. Database connection details-mysql_connect()(2 marks)</li><li>3. Create and insert employee details into the database- create table and insert into(2 marks)</li><li>4. Retrieve data from database using –mysql_query(2 marks)</li></ol>	7		
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