



UNIVERSITY OF COLOMBO, SRI LANKA

University of Colombo School of Computing



BACHELOR OF SCIENCE IN INFORMATION SYSTEMS

First Year Examination - Semester II - 2021/2022



100

IS1109 - Programming for Web Application Development

(Part A)

TWO (2) HOURS (for both parts A & B)

To be completed by the cal	ndidate	
Examination Index No:		-

Important Instructions to candidates:

- 1. The medium of instruction and question is **English**.
- 2. Write your answers in English.
- 3. If a page or a part of this question paper is not printed, please inform the supervisor immediately.
- 4. Note that questions appear on both sides of the paper. If a page is not printed, please inform the supervisor immediately.
- 5. Write your index number on each and every page of the answer paper.
- 6. This paper has 3 questions in 09 pages.
- 7. Answer **ALL** questions. All questions carry equal marks (25 marks).
- 8. This paper consists of two parts, Part A (Question No 1, Question No 2 and Question No 3) and Part B (Question No 4) and submit separately.
- 9. Any electronic device capable of storing and retrieving text including electronic dictionaries and mobile phones are not allowed.
- 10. calculators are not allowed.

For Exam or	iner's use aly
Question No	Marks
1	
2	
3	
4	
Total	

	AMOCA 1101
Quest	ion 1
State correc	whether the following parts of the HTML, CSS and JavaScript code segments are syntactically of wrong. If they are wrong, then make necessary changes to correct them.
	[2.5 x 10=25 Marks]
L.	<blockquote cite="http://www.abc/index.html"> For 50 years, WWF has been protecting the future of nature. WWF's goal is to: <q>Build a future where people live in harmony with nature. </q></blockquote>
2.	The <text abbr="World Health Organization">WHO was founded in 1948. <marquee dir="right">This text will scroll from left to right</marquee></text>
3.	<pre><figcaption> <figure> Fig.1 - Trulli, Puglia, Italy.</figure></figcaption> </pre>
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	······································
4.	<pre> <usemap name="Rose"> < shape="rectagular" coords="8,38,87,63" a href="comet01.html" alt=Bud> </usemap></pre>

	Index No:
5.	<pre><form action="action_page.php"> Quantity: <input max="100" min="0" points"="" step="10" type="number' name=" value="30"/> <input type="submit"/> <input name="fname" placeholder="First name" type="text"/> </form></pre>
	······································
6.	<pre><body></body></pre>
7.	<pre><head> <style type="css/text"> a:link{color:yellow; font- size:large} a:visited{"color:blue; font-size:small"} </style> </head><body> Back to top </body> </pre>
8.	<pre> 1. <u>Activist</u> </pre>
9.	Zagnint I ammana Minana and Ma
	<pre><script language="javascript"> function winopen1() { window.open("new.html","new", "menubar=yes, scrollbars=yes, width=300 , height=400").moveTo(200,200); } </script></pre>
10.	.small-heading {.large-heading;font-size:14px;}

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Question 2

Write down the output of the following codes

```
[5 x 5=25 Marks]
   <?php
   n=4;
   for($i=1; $i<=$n; $i++) {
                               for($j=1; $j<=$i; $j++) {
                               •••••
   echo ' 2 ';
                               echo '<br>';
                               for($i=$n; $i>=1; $i--) {
   for($j=1; $j<=$i; $j++) {
   echo ' 3 '; }
   echo '<br> '; }
   ?>
2.
   <?php
   sindex = 6;
   while (\frac{\sin x}{\sin x}) = 0
      echo "The index is ".$index.".\n <br />";
      $index--;
    }
   ?>
    ......
3.
   <?php
    $Marks = array("Susi"=>"45", "Nihal"=>"86", "Kamal"=>"57");
   arsort($Marks);
    foreach($Marks as $x => $x_value) {
       echo "Name=" . $x . ", Marks=" . $x value;
       echo "<br>";
    }
    ?>
```

		Index No:
4.		
	<html><head></head></html>	
	<style></td><td></td></tr><tr><td></td><td>div + h3 {</td><td>•••••</td></tr><tr><td></td><td>border: dotted;</td><td></td></tr><tr><td></td><td>}</td><td></td></tr><tr><td></td><td></style> <body> <div> <h3>Part A</h3> <h2>Part B</h2></div></body>	
	<h3>Part C</h3>	
	<h3>Part D <h2>Part E</h2></h3>	
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5.	. 	
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	<pre><ul style="list-style-type:disc;</td><td>"></pre>	
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	<pre>Colombo 3</pre>	
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Index	NO:			 ٠											٠		

Question 3

You are asked to create a web application for an internet service provider. The main requirement is to keep track of the usage. The folder structure database, tables and other relevant information of a customer order management system is given bellow. The server host name, server IP address and database name may change in future.

Folder Structure:

C:\xampp\htdocs\ucsc\index.php

C:\xampp\htdocs\ucsc\error\error.php

C:\xampp\htdocs\ucsc\con\data\data.php

C:\xampp\htdocs\ucsc\con\connection.php

C:\xampp\htdocs\ucsc\admin\user\logoff.php

Other Necessary Information:

Web server IP: 198.16.10.14

Your computer IP address that can connect to the Internet: 198.168.1.14

Database server IP: 198.16. 10.17 Database root user password: xyz

You are given a database (abc) and a few tables to get started. There are three (3) tables as follows

1. users - a table to keep user details

2. packages - a table to keep package details

3. usage - a table to keep usage

Users Table (users)

user_id	first_name	last_name	email
1-1	Haran	Shivanan	haran@gmail.com
2	Meenakshi	Sundaram	meenakshi@gmail.com
3	Kesara	Milinda	kesara@gmail.com
4	Shanika	Jayasooriya	shanika@gmail.com

Packages Table (packages)

package_id	package_name	limit	price
1	Work From Home	40	2000
2	Student	40	1500
3	Facebook & Youtube	30	1500

Index No:	

Usage Table (usage)

id	user_id	package_id	usage
Perced	u_01	p_01	30
2	u_02	p_01	39
3	u_03	p_02	20
4	u_04	p_03	25

Answer the following questions based on the tables given above.

	Write SQL query to create the above "users" table with appropriate key constraints (primary key
	foreign key).
	[3 Marks]
2.	The "connection.php" page contains only the code to connect to the database server. Write down
	the complete PHP coding to fulfill the above requirement and to display the error message in case
	of a failure.
	[3 Marks]
3	"data.php" holds some necessary information such as values for the variables in "connection.php".
٥.	Write down the complete PHP code including relevant information for the "data.php" file.
	[3 Marks]
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	Index No:
4.	Write the relevant PHP and SQL codes to insert a new user into the users' table. Assume you have already created a user interface to get all the relevant data. Use appropriate variables and create the database connection in the same file.
	[4 Marks]
	[• • • • • • • • • • • • • • • • • • •
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5.	Write the SQL query to update the price of the "Student" package to 1300.
	[3 Marks]
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6.	The client has requested that they wish to see the usage of all users. Write the appropriate PHP and SQL codes to show the usage of all users. Required fields are first_name, email, package_name,
	limit, and usage. Use connection.php to connect to the database and usage.php to list the usage.
	[3 Marks]
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Write the relevant PHP and SQL codes to get the first_name and email address of the users who use the "Work From Home" package and has usage of more than 35.		
[6 Mar	rks]	
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