

# UNIVERSITY OF COLOMBO, SRI LANKA



### UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

#### **BACHELOR OF SCIENCE IN INFORMATION SYSTEMS**

Academic Year 2013/2014 - Second Year Examination - Semester I - 2014

# IS 2004 - Web Application Development

TWO (2) HOURS

To be completed by the candidate

Examination Index No:

### **Important Instructions to candidates:**

- 1. The medium of instruction and questions is English.
- 2. This paper has 4 questions and 12 pages.
- 3. If a page or a part of this question paper is not printed, please inform the supervisor immediately.
- 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 question paper.
- 6. Answer **ALL** questions. All questions carry equal marks (25 marks).
- 7. Any electronic device capable of storing and retrieving text including electronic dictionaries and mobile phones are **not allowed**.
- 8. No calculators are allowed.
- 9. Your answer should be *precised* according to the given space.

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Question No	Marks
1	
2	
3	
4	000
Total	

	Index No:
an <u>er</u>	a) <u>State</u> whether the following HTML and CSS code is syntactically <u>correct</u> or will generate <u>ror</u> or will <u>not produce the desired output</u> . If the code generate an error or not produces the ed output, debug it.
(i)	[Marks: 1 1/2 x 12=18] <a #a"="" ,="" href="home.htm" name="#top">Introduction</a> <a name="#a"><h1>Introduction</h1></a> <a href="top">Top</a>
(ii)	<pre><frame ,"*"="" rows="159" set=""/> <frameset columns="12,10"></frameset></pre>
(iii)	<pre><h1 "font-size:12px"="" ;font-type="arial" style="colour:red"></h1></pre>
(iv)	<pre><img usemap="car"/> <map name="car"> </map></pre>
	malients or explicate in the dictatorated to much on and literature.
	as play as also supplied the control of the control
(v)	<areashape=rect ahref="a.html" alt="home"></areashape=rect>
	A Secretary and a secretary and the second and the
(vi) «	<pre>cbody&gt;<style type="text/css"> h1{color:red;font-size:20px}   </style></pre>
(vii)	<pre><body> <link rel="style" sheet="" src="style.css" type="css"/> </body></pre>
(viii)	h1,h2,h3{font-type=arial}

(ix)	<pre>#para2 ul li {border-style : double }</pre>
(x)	<a href="application.docx">Download your application</a>
(xi)	<pre><iframe height="200" href="Habitat.html" name="abc" width="300"></iframe></pre>
(xii)	<pre><body bgcolor="#ae3355"> <bgsound src="a.wav"/> </body></pre>
(b) L	ist five different <u>HTML tags</u> that has " <u>src</u> " as an attribute?  [Marks: = 5]
	1
	2
	3
	4
	5
(c) I	ist four (4) types of event handlers supported by JavaScript?  [Marks: = 2]
	[Marks. – 2]
	1
	2
	3
	4

Index No: .....

	Inc	dex No:
2.	2. (a) Write the proper HTML coding to create the follow	ing table
		[Marks: = 4]
	1 1	
	1	
	1 1	
	1 1 1	
	Control of the contro	
(b)	(b) Write down the HTML version 5 code to play an "mp3"	
(0)	abc.mp3) on a HTML Supported browser.	chedded addio me (me name is
		[Marks: = 3]
(c)	(c) Explain the following CSS code based on the syntax (im	
(0)	img.x{ z-index:-1; }	ig .x) and the purpose of Z-index.
		[Marks: = 2]

•

- (d) Which of the following statement(s) is/are correct?
  - (i). In PHP, a variable does not need to be declared before adding a value to it.
  - (ii). PHP automatically converts the variable to the correct data type, depending on its value.
  - (iii). A variable name must start with a letter or an underscore " " but not with number
  - (iv). A variable name can only contain alpha-numeric characters, underscores (a-z, A-Z, 0-9, and
  - (v). \$\_POST and \$\_GET are form variables
- (e) What would be the output of the following code?

```
<?php
    $txt1="Today is Monday";
    $txt2="Have a nice day !";
Echo $txt1 . " ". $txt2;
?>
```

- (i). "Today is Monday" "Have a nice Day!"
- (ii). "Today is Monday Have a nice Day!"
- (iii). Today is Monday Have a nice Day!
- (iv). Today is Monday. Have a nice Day!
- (v). Have a nice Day! Today is Monday.
- (f) Which of the following statement(s) is/are correct regarding the PHP operators?
  - (i). x + = y can be written as x = x + y
  - (ii). In "5!=8 return true", "!=" can be considered as a Comparison operator
- (iii). X=6
   y=3
   In "(x< 10 && y>1) return true", "x< 10 && y>1" can be considered as a logical operator
- (iv). The result of 5 % 2 is 1.
- (v). x%=y can also be written as x=x%y

[Marks: 2 x 3=6]

(g) Write the proper PHP coding to create the following output using three nested "for" loops.

[Marks: =5]

A holds: 2, B holds: 2, C holds:6

A holds: 2, B holds: 2, C holds: 5

A holds: 2, B holds: 5, C holds: 6

A holds: 2, B holds: 5, C holds: 5

A holds: 3, B holds: 2, C holds: 6

A holds:3, B holds: 2, C holds:5

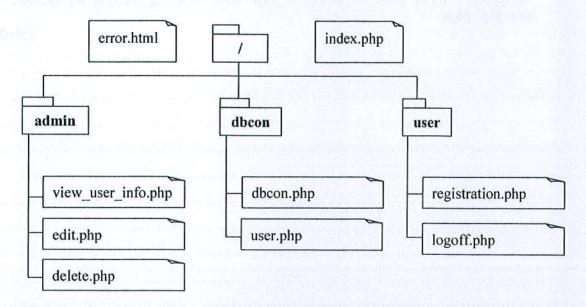
A holds:3, B holds: 5, C holds:6

A holds: 3, B holds: 5, C holds: 5

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			III. Kara telety
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	ge Sitt ou goldings come spisson		
n) write the proper I	PHP coding to create the following	goutput using "while" loop.	
			[Marks: =5]
T	he number is: 3		
	he number is: 4		
	he number is: 5		
	he number is: 6		
	he number is: 7		
		••••••	
			•••••
	471,001 57	A SUPPRIES SCHREET, ES	
		(a) - (a) (b) (b) (b) (b) (b)	

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Index	NO	١:	 								 				 38	

## 3. Answer the questions using the given details



A Web developer plans to create a web site according the above folder structure for the relevant files and he has collected necessary information in order to develop it. That information is as follows;

Web Serve IP address : 172.16.10.1
Database server host name : abc.com
Database user name : uoc
Database Password : uoc123
Database name : uocinfo
Table name : student

The system was planned to support data insertion, retrieval, deletion and edit. He also has an idea to change the sever host name, server IP address, and database name in future for some other reasons. The information he wants to include are student's identity card number(st\_id), student's name (st\_name), password (st\_pw), country, gender and hobbies.

(a)	The "dbcon.php" page contains the code to connect to the	e database server using variables since
	he wants to change those information from time to time.	Write down the complete php coding
	to fulfill the above requirement.	
		[Morker -2]

	[Warks5]
4	 ***************************************
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		Inc	lex No:	
(b) "user.php" includes "dbcon.php". Write "user.php" page	s some necessary info down the complete	Formation suc PHP code i	h as values for the including relevant in	variables used by information for the
				[Marks = 3]
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	nerske skore serve			
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c) Write down the SQL	query to create the tal	ble according	to the relevant detail	s given in the
	sary key constraints ar			
			n i nama na rational de la companion	[Marks =3]
tasa sala e es infessio				
	in a second	to 6 Telepoor		•••••
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Tribinal				
				TO A CONTROL OF THE PARTY OF TH

	Index No:
(d) Write the PHP code ("registration.php") and "user.php" to connect to the database.	to feed data into the relevant table using "dbcon.php
	[Marks: =3]
(e). Write the PHP code and SQL query to ad	Id data into the relevant table.  [Marks: =3]
[2] [2] [3] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4	rowser interface according to the relevant information so be "send" and "cancel" buttons to send data to the  [Marks: =5]
and appropriate forms. There should als database or cancel.	so be "send" and "cancel" buttons to send data to the  [Marks: =5]
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and appropriate forms. There should als database or cancel.	so be "send" and "cancel" buttons to send data to the  [Marks: =5]

	Index No:
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(g). Write the PHP code to display data on the browser	nage
(g). Write the TTI code to display data on the browser	[Marks: =5]
	***************************************

	index No:
4 (a) What is meant by Web 2 02 Explai	n using appropriate example web applications.
4. (a) What is incant by Web 2.0: Explai	[5 marks]
	[5 marks]
.,	
***************************************	
<u> </u>	
(b) Explain what is meant by Web3D usin	g an appropriate example.
(b) Explain what is meant by Web3D usin	g an appropriate example. [5 marks]
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(c) Briefly explain the legal issues related to web publ	[5 marks]
(d) What are the basic user roles and their responsibility Systems?	ties in maintaining Content Management
	[6 marks]
(e) List four (4) types of Content Management System	S.
	[4 marks]