



**RAJATRATA UNIVERSITY OF SRI LANKA**  
**FACULTY OF APPLIED SCIENCES, MIHINTALE**

**B.Sc.(General ) Degree Examination Second Year-Semester II-October 2013**  
**COM2303 – Web Design**

Answer **Four Questions Only**

**Time : 2 Hours.**

1.

- i. Use HTML to markup a document that contains the following text

<p style="text-align: center;"><b>WELCOME TO OUR WEB SITE</b></p> <hr/> <p><b>This Site is design to teach web development basics. We offer this service free of charge. For more details "click me".</b></p> <p><b>Your comments please.</b></p>
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- a. Use H1 tag for the title (first line), P tag for the rest of the text. Insert horizontal rule between H1 and P elements. Add a hyperlink to "click me" referring particular location of page2.html document. Add a hyperlink to email address "someone@gmail.com" providing default email program to the user to write email message to the linked address.

**(7 Marks)**

- b. Insert an image to the index.html document considering the given information:

Index.html is located in your home directory (folder),

"img" is a sub folder in your home folder.

abc.gif file is located in "img" sub folder.

Size of the abc.gif is 100 x150 in pixels.

Size of the image in the document should be half of the original size.

**(8 Marks)**

- ii. Use HTML to markup the following form:

Quantity	:	<input type="text"/>
Price	:	<input type="text"/>
Bill value	:	<input type="text"/>
<input type="button" value="submit"/>		

iii. Create the HTML markup that produces the table shown below: (10 Marks)

**Data description**

Name	Description	Student identifiere	Date
Derivations			
User Roll			
	Author		Signature

Header colour blue

Footer colour yellow

2.

- i. Explain how the code should be altered to set the font size of the text "Hello World" to 20pt, using:
  - a. inline CSS,
  - b. internal CSS,
  - c. external CSS.

(5 Marks)
- ii. Write a CSS style rule to a P tag that changes the font color into green. (5 Marks)
- iii. Write an embedded style rule that changes the size of all elements containing attribute class="fontsize" to 1.5 times larger than the base font. (5 Marks)
- iii. Write an external style sheet for the above question (1.i) that should contain rules for displaying H1 element red in colour, padding of 0.5 em, solid border and margin 15px. Display all links in blue colour without underline. (10 Marks)

3.

- i. Find the errors in the following JavaScript code segments
  - a) To get even integer from 20 down to 2  

```
for( y=20,y>2,y+=2)
{document.write(y);}
```

(2 Marks)
  - b) To find the sum of integers from 0 to a given integer n, using a recursive function  

```
function sum(n)
{if (n==0)
return 0;
else
return n+sum(n);
}
```

(4 Marks)
- ii. Describe the following methods of Sstring object using suitable examples:
  - a) charAt()
  - b) substr()
  - c) slice()

(9 Marks)

- iii. Write a JavaScript function to calculate and display the bill value for the above (1.i.) HTML document when user will fill the quantity and price fields. Your script should validate the user entry before you calculate the bill value. **(10 Marks)**

4. When invalid data is entered into a form, the system will find the invalid data and report them back to the user with an error message. Describe, with an example for each, when data should be validated at:
- The client end?
  - The server end?

Describe necessity and importance of each situation.

**(25 Marks)**

5.

- i. Suppose you are requested to create a dynamic Website using PHP. When user clicks on the "submit" button after entering the name and comments, the entered name and the comments are displayed on the screen as shown below. Write required HTML and PHP codes to implement the above scenario.

**(10 Marks)**

<p><b>Feedback Form</b></p> <p>Please fill the form</p> <p><b>Name:</b> <input type="text" value="Perera"/></p> <p><b>Comments:</b> <input type="text" value="Fine"/></p> <p><input type="button" value="Submit"/></p>	<p><b>Your feed back</b></p> <p><b>Name:</b> Perera</p> <p><b>Comments:</b> Fine</p>
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- ii. Modify above PHP script that validates the name against registered site user list in a database. If the name exists in the registered list, add comments to the "**comment**" table in the database. Otherwise display error message "Not a registered user". **(15 Marks)**