RAJATRATA UNIVERSITY OF SRI LANKA
FACULTY OF APPLIED SCIENCES, MIHINTALE
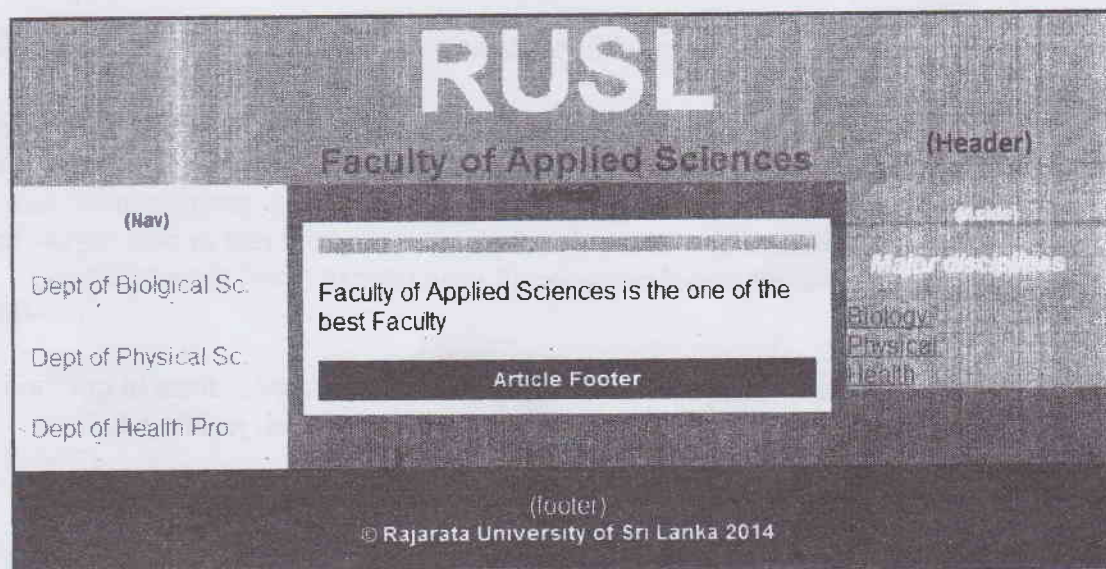
B.Sc.(General) Degree Examination Second Year-Semester II-March 2014
COM2303 – Web Design

Answer all **Questions**   Time : 2 Hours.

1.

  i. HTML5 provides sectioning elements such as footer, nav, article etc. Use such elements with appropriate html elements to markup the following web page. Note that the appropriate sections are given within the brackets for your reference only.

Department hyperlinks are referring deferent web pages, located in deferent sub folders.(assume names of the web pages are bio.html,phy.html,health.html)
Insert logo to the head section (the image file "logo.gif" is located in "img" sub folder. Size of an image is 75 pixel width and 100 pixel height.

(15 Marks)

ii. Use HTML to markup the following survey form: (10 Marks)

Register your opinion   User Id   [   ]

How well do you rate the information on this site (where 1 is very poor and 5 is very good)?

○ ● ○ ○
1   2   3   4   5
Very Poor Poor Average Good Very Good

[Vote now]

2.

i.   Write three CSS style **selectors** with examples.   (5 Marks)

ii. HTML5 pushes the separation of **content** and **presentation**, so you have to style above web page in Question (1.i) using CSS to have a similar look. You are requested to write CSS rules for NAV section as follows: background color brown, position in left side of the page, width is 25%, border in yellow color, 5 pixels width, and text in blue. Hyper links within that area should not underline (write all style rules in "nav" class selector).
                                                                            (15 Marks)

iii. Write CSS style rules to draw a box for the heading of the survey form in question (1.ii.). Color of the doted border is green, size of the border is 5 pixel, padding 4pixel.
                                                                            (5 Marks)

3.

i.   Write a JavaScript function to start your homepage with the text " Good Morning " if the time is in the morning or "Good afternoon" if the time is in the evening. (use DATE object methods).   (5 Marks)

ii. Write a script that reads five integers and outputs HTML text that displays the largest and smallest integers in the group. (Use an array).   (5 Marks)

iii. What would be the output of the following script.
```
< script type="text/JavaScript" >
myString = new String('Learning about Built-in Objects is easy');
myString = myString.substring(15, 31);
document.write(myString);  < /script >
```
                                                                            (5 Marks)

iv. Write a JavaScript functions that validates the entry of the above question (1.ii.). When user does not click any option button display "You did not click any answer" massage. Otherwise display selected option. (10 Marks)

4.

i. Give example for each of the followings:
   a. Here Doc string.
   b. Variable Functions.
   c. Static variable   (2x3 Marks)

ii. What would be the output of the following PHP code segments:

   a. ```
   $variable1 = 4.0;
   $variable2 = 5;
   $variable3 = (int) $variable1 + $variable2
   ```
   (2 Marks)

   b. ```
   $inventory = array        {
      "pen" => 100,
      "pencil" => 200,
      "book" => 50}
      foreach ($inventory as $i => $item_count)
      {
      print "$item_count units of $i remaining<BR>";
      }
   ```
   (2 Marks)

iii. Suppose you are requested to create a MySql database to store results of the survey done by using the survey form in question (1.ii). Name of the data base is "**mysite**". table name is "**opinion**" which consists of **"user id"** and "**rate**" fields. You are requested to write the PHP script to insert the survey results in to "opinion" table, while sending the thanking massage to the user.

(15 Marks)