UNIVERSITY OF RUHUNA

BACHELOR OF COMPUTER SCIENCE (GENERAL) DEGREE LEVEL I (SEMESTER I)

EXAMINATION - July/August 2014

SUBJECT: COMPUTER SCIENCE

COURSE UNIT: CSC 113a (Internet Services and Web Development)

TIME: 1 hour

Answer two questions only.

1.

- a. Write four advantages of developing and maintaining web standards.
- b. Write suitable HTML code segments to accomplish each of the following tasks.
 - i. Link the text "Schools in Sri Lanka" to URL "www.schoolnet.lk" to create a hyperlink and open it in a new window.
 - ii. Insert an image flag.jpg with an alternate text "SLFlag" and set the width of the image as 100 px. (Assume the image is stored in the same folder as the html file).
 - iii. Create an empty table with three columns and three rows. Give the title of the table as "Sales Summary". The first two cells of the second column need to merge.
 - iv. Create the following list as a Description List.

Cakes

Black Forest

Carrot Cake

Pudding

Chocolate Bread

Chocolate Tower

c.

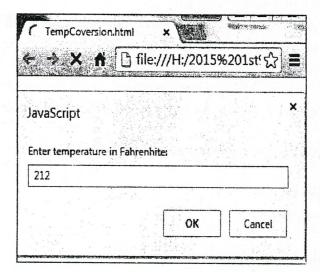
- i. Give two situations where POST method is preferred than GET method.
- ii. Write HTML code to design following form.

Student ID	
Choose Course Units	
᠍ COM 3232	,
□ COM 3b33	
Submit Reset	

- i. Explain the importance of Client Side Scripting Language in web development.
- ii. Write JavaScript code to input Fahrenheit value using prompt box (as depicts in Figure 1), and covert into centigrade value of it and display the result (as depicts in Figure 2) on the same web page. You are required to write a separate function to calculate the centigrade value of any given Fahrenheit value.

Use following formula to perform the conversion from Fahrenheit value to Centigrade Value:

Centigrade Value = 5/9 x (Fahrenheit Value - 32)



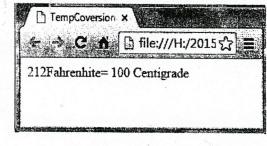


Figure 01

Figure 02

- b. Explain following JavaScript built-in functions using suitable examples.
 - i. parseFloat()
 - ii. math.round()

c. Write JavaScript code to get the following output using nested for loop.

1	2	3.	4	5	6	7	8	9	10
2	4	6	8	10	12	14	16	18	20
3	6	9	12	15	18	21	24	27	30
4	8	12	16	20	24	28	32	36	40
5	10	15	20	25	30	35	40	45	50
6	12	18	24	30	36	42	48	54	60
7	14	21	28	35	42	49	56	63	70
8	16	24	32	40	48	56	64	72	80
9	18	27	36	45	54	63	72	81	90
10	20	30	40	50	60	70	80	90	100

3.

a.

- i. Write two advantages of using external style sheets (CSS) in web development.
- ii. What are Pseudo-classes in CSS? Explain three types of CSS Pseudo classes used in hyperlinks.
- b. Write html code to design a menu given in Figure 03 with embedded styles. Use attributes and values given in the table 01 for the embedded styles.

Selector	Attribute	Value
ul	float	Left
	width	100%
	padding	0
	margin	0
	List style type	none
a	float	Left
	width	6em
	text decoration	None
	text color	White
	background color	Purple
	padding	0.2em 0.6em
,	border right	1px solid white

Table 01: Attributes with Values needed to design the horizontal menu

Home	About	75	Login	Contacts
- CLOVILLE				

Figure 03

- c. Briefly describe each of the following terms.
 - i. Domain Name System
 - ii. Broadband Internet Connection
 - iii. Web Server
 - iv. IP Address