University of Ruhuna - Faculty of Technology

Bachelor of Information and Communication Technology

Level 1 (Semester 1) Examination - November 2019

Course Unit: ICT1143 Web Technologies (Theory) Time: 2 hours

Answer all four questions

- a) I) Briefly explain the difference between the internet and the www (world wide web)
 - II) Briefly explain the client server architecture used in Internet using a diagram.
 - III) List two (02) advantages and disadvantages of client server architecture.
 - b) I) Expand the following abbreviations

Ex: IP: Internet Protocol

- TCP
- WWW
- DNS
- II) Highlight the difference between HTTP and HTTPS.
- c) Which command is used to check the connection between two computers in a network?
- d) I) What is the use of <Meta> tag in a web page?
 - II) Refer the following code fragment and fill in the blanks using the given list of options.

List of answer options: "Sun", sun.html, #galaxy, "Earth", "sun.png"

2.

- a) I) Write a HTML code to get the following web page in figure 1 with followings.
 - "HTML Practice Exercise" is a H1 heading
 - "University of Ruhuna" is a H2 heading
 - "University of Ruhuna" is linked to http://www.ruh.ac.lk URL and it must be opened in a new tab

University of Rubuna - Faculty of Technology

II) Explain the difference between the absolute path of link and relative path of a link using an example.

Time: 2 hours	HTML Practice Exercise University of Ruhuna.	36.
Faculties and Departments in t	i) Briefly explain the difference between the justical a	(s
A Tachastam	II) Briefly explain the elient server architecture used i	
1. Departments	III) List two (02) advantages and disadvantages of c	
ilcr	I) Expand the following abbreviations	
î.H	Exc IP: Internet Protocol	
iii. BST	• TCP	
4. Lahs 5. Server Room	WWW *	
	II) Highlight the difference between HTTP and HTTI	
A Al austromono con page	rtad maitheanna advidanta a Van de Company	
	I) What is the use of Meta is in a web page?	
Welcome new Intake 20		
lanks using the given lis	If) Refer the following code fragment and fill in the bostions.	

cimg src= wrettn="150" neign= 160 nier- nieList of answer options: "Sit aruginality, "galaxy, "Earth", "sun png"

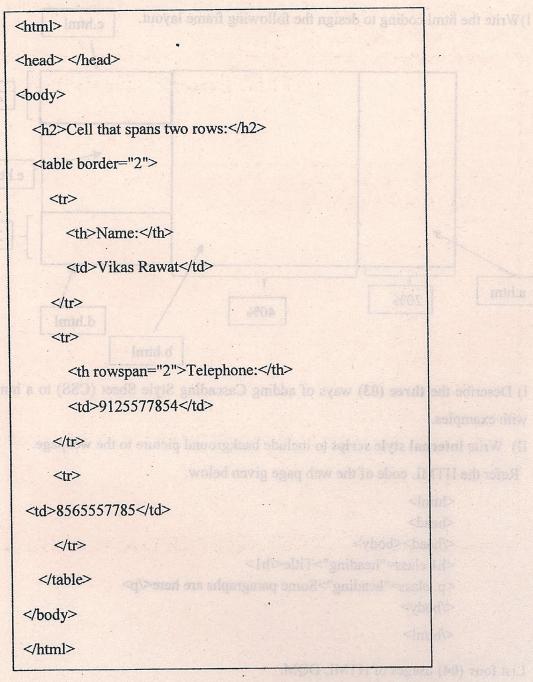
3) 1) Write a HTML code to get the following web page in figure 1 with followings.

"HTML Practice Exercise" is a H1 heading.

University of Rubuna" is a H2 heading

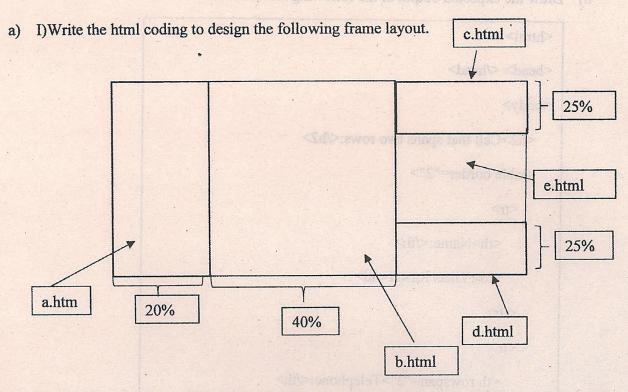
** University of Ruliuna" is linked to http://www.ruh.ac.lk URL and it must be onened in a new tab

b) Draw the expected output of the following HTML code.



- c) Write the code segment to add given colors to the following places,
 - •The document background(#FFOOFF)
 - •The font "Faculty of Technology" (red)
 - •The font "Department of ICT" (rgb(255,255,0))

3.



- b) I) Describe the **three (03)** ways of adding Cascading Style Sheet (CSS) to a html page with examples.
 - II) Write internal style script to include background picture to the webpage.
 Refer the HTML code of the web page given below.

<html>

<head>

</head><body>

<h1 class="heading">Title</h1>

Some paragraphs are here

</body>

</html>

c) List four (04) usages of HTML DOM.

- a) I) Briefly describe two advantages of using JavaScript in a web page.
 - II) Create a HTML interface with following functionalities and add the given styles using internal styles
 - Body background color:cyan

4.

- H1 heading font-family: Times New Roman, font-size: 45px, Color: red, position: relative, left: 250px;
- Paragraph font-size: 15px, font-family, Times New Roman; User allows to enter the amount, interest rate and the number of years and calculate the interest rate using java script function.
- Get the final output into paragraph tag.

Calculate Intere	ocument whilein("Used continue tschipt>
	/head> fody>
Enter the principle amount:	dental
Enter the rate of interest:	State ine différence between H1
Enter the number of years:	etab sevig oc
[1,14. Female, Doctor, Rs. 60000, Maharar	or Thacks Jayannghe, 1992,
Calculate	Jospital, Peradeniya Road, Kardy ID Describe the functionality or v
and a supply of the supply of	and fathermentals with a service of the

- b) I) Explain three (03) advantages of using Jquery in a web application.
 - II) List four (04) methods in Jquery by mentioning their functionalities.

III) Write the output of following code sequence.

- c) I) State the difference between HTML and XML.
 - II) Consider the following employer record. Write a suitable XML document to represent the given data.

N

- Dr. Tharaka Jayasinghe, 1992,11,14, Female,Doctor,Rs.60000,Maharagama Cancer Hospital, Peradeniya Road, Kandy.
- III) Describe the functionality of CDATA sections in an XML document.

 End of Paper	