

RAJARATA UNIVERSITY OF SRI LANKA FACULTY OF APPLIED SCIENCES

B.Sc. (General) Degree in Information and Communication Technology Second Year - Semester I Examination — September/October 2019

ICT 2404 - MULTIMEDIA AND WEB TECHNOLOGY

Time: Three (03) hours **Answer ALL Questions** 1. a) Describe the difference between client-side programming and server-side (4 marks) programming. b) What is the difference between the internet and the World Wide Web? (6 marks) c) Describe three benefits of the cloud computing model. (4 marks) (4 marks) d) What is a protocol? Give three examples. e) Discuss four (04) negative aspects of the Internet. (2 marks) 2. a) Compare and contrast HTTP and HTTPS. (5 marks) b) Fill in the blanks in each of the following using suitable HTML tags. The element----- inserts a horizontal rule. A superscript is marked up using the----- element, and a subscript is marked up using the ----- element. The least significant heading element is -----and the most significant iii. heading element is -----

iv. Element----- marks up an unordered list.

v. Element -----marks up a paragraph.

vi. The element ----- marks up a table row.

(6 marks)

c) When is it appropriate to use frames in HTML? Explain the situation when not to use HTML frames. (5 marks)

d) What are the style sheets?

(4 marks)

3.

- a) Create three div elements, each with a width and height of 100px.
 - i. On the first element, create slightly rounded corners using a border of 3px black and border-radius of 10px.
 - ii. On the second element, use a border of 3px black and increase the border-radius to 50px.
 - iii. On the third, use a border of 3px black and increase the border-radius to 100px.
 - iv. Make the background-color of each element a different color of your choosing.
 - v. Inside each element, display the value of the border-radius in bold text

(10 marks)

- b) Write JavaScript statements to accomplish each of the following tasks:
 - i. Declare variables c, this Is A Variable, q76354 and number.
 - ii. Display a dialog asking the user to enter an integer. Show a default value 0 in the dialog.
 - iii. Convert a string to an integer, and store the converted value in variable age.
 - iv. If the variable *number* is not equal to 7, display "The variable number is not equal to 7" in a message dialog.
 - v. Output a line of HTML5 text that will display the message "This is JavaScript" in a document.

(10 marks)

4.		
a)	Enumerate the differences between Java and JavaScript?	(2 marks)
b)	What is wrong with the following while repetition statement?	
	while $(z \ge 0)$	
	sum += z;	(2 marks)
c)	What is PHP? Why do we use PHP?	(2 marks)
d)	Is PHP a strongly typed language? Explain using example.	(4 marks)
e)	What is the difference between GET and POST methods?	(6 marks)
f)	Explain setcookie() function in PHP?	(4 marks)
5.		
a)	Define the term "Multimedia"	(2 marks)
b)	List major building blocks of multimedia	(4 marks)
c) "It is important to compress video data compared to audio data." Do you agree		
	with this statement? Justify your answer.	(6 marks)
d)	Write short notes on following topics.	
	i. Phase of a signal	
	ii. Harmonics	
	iii. Vector graphics	
	iv. Sound intensity	(2x4 marks)

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