

# **GRETSA UNIVERSITY - THIKA**

# UNIVERSITY EXAMINATIONS JANUARY - APRIL 2021 SEMESTER

# DIPLOMA IN COMPUTER SCIENCE / INFORMATION TECHNOLOGY

**COURSE CODE: DPCC 032** 

**COURSE TITLE: FUNDAMENTALS OF WEB SYSTEMS** 

DATE: 10 MAY 2021

TIME: 11.30 AM - 2.30 PM

## **INSTRUCTIONS TO CANDIDATES**

- 1. SECTION A IS **COMPULSORY.**
- 2. SECTION B: ANSWER ANY OTHER **THREE** QUESTIONS.
- 3. **<u>DO NOT</u>** WRITE ANYTHING ON THIS QUESTION PAPER AS IT WILL BE AN EXAM IRREGULARITY.
- 4. ALL ROUGH WORK SHOULD BE AT THE BACK OF YOUR ANSWER BOOKLET AND CROSSED OUT.

**CAUTION:** All exam rooms are under CCTV surveillance during the examination period.

## SECTION A: COMPULSORY

# **QUESTION ONE**

a)	Distinguish between the following HTML tags:					
	i. <b> and <strong></strong></b>	[2 Marks]				
	ii. <i> and <em></em></i>	[2 Marks]				
	iii. <mark> and <del></del></mark>	[2 Marks]				
	iv. <rowspan> and <colspan></colspan></rowspan>	[2 Marks]				
b)	Outline the errors in the following HTML program	[5 Marks]				
	DOCTYPE html					
	<html></html>					
	<title>&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;&lt;head&gt; &lt;/head&gt;&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th colspan=6&gt;</title>					
	<body></body>					
	<h1>This Is a Heading<h1></h1></h1>					
	This Is a Paragraph.					
a) Use CSS code to set the size of the image in the line below to 250 pixels wide and 400 p						
	tall. Rewrite the new line	[4 Marks]				
	<img src="scream.png" style=";"/>					
c)	Discuss two functions of the style attribute	[4 Marks]				
d)	Dicsuss four rules to be followed when writing HTML programs	[4 Marks]				
e) Discuss the following HTML quotation tags and show examples in each						
	i. <blockquote></blockquote>	[3 Marks]				
	ii. <cite></cite>	[3 Marks]				
	iii. <q></q>	[3 Marks]				
f)						
	The <abbr title="World Health Organization">WHO</abbr> was founded	-				
		[3 Marks]				
g)	Discuss the output of the following snippet of a HTML program	[3 Marks]				
	<address></address>					
	Written by John Doe.					
	Visit us at: <br< th=""><th></th></br<>					
	Example.com					
	Box 564, Disneyland					
	USA					

# SECTION B: ANSWER ANY THREE QUESTIONS QUESTION TWO

- a) Distinguish between cell padding and border spacing with regard to HTML tables [4 Marks]
- b) Write a HTML program to add a table with two rows and two table headers. The two table headers should have the value "Name" and "Age" [6 Marks]
- c) Write a HTML program to recreate the following table:

Russell's Test Scores			
	Test 1	Test 2	
English	92	91	
Science	89	96	
Mathematics	97	90	

### **QUESTION THREE**

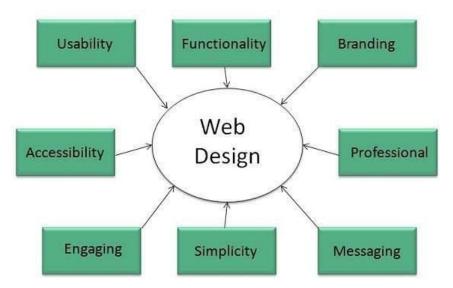
- a) Write a HTML program to display the following radio buttons
- [6 Marks]

[10 Marks]

- O Male
- Female
- Other
- b) Explain four web development tools commonly used in the industry today [4 Marks]
- c) Write a HTML program to create 1 green button and 2 blue buttons that prompt the user to enter username, password, and then click to log in. The buttons should read: USERNAME, PASSWORD and LOGIN and should appear on different lines. USERNAME and PASSWORD buttons should be blue and LOGIN button should be green [10 Marks]

### **QUESTION FOUR**

a) Effective web design is necessary to communicate ideas effectively. Explain the following features of effective web design [10 Marks]



- b) Rewrite the following line to add a "tooltip" with the text "Fundamentals of Web Systems"
  This is a HTML paragraph [4 Marks]
- c) List three client-side scripting languages and three server-side scripting languages [6 Marks]

## **QUESTION FIVE**

a)	Discu	[6 Marks]				
b)	Define the use of the following CSS properties:					
	i.	Border	[2 Marks]			
	ii.	Margin	[2 Marks]			
	iii.	Padding	[2 Marks]			

c) Write a HTML program with CSS styling to recreate the following document. Set the background colour of each paragraph to three different colours of your choice. [8 Marks]

