

# UNITED REPUBLIC OF TANZANIA MINISTRY OF EDUCATION, SCIENCE AND **TECHNOLOGY**

# MZUMBE UNIVERSITY FACULTY OF SCIENCE AND TECHNOLOGY



CSS 221: TEST 01

### Instructions

- Attempt all questions
- Time allowed: 60 minutes

# Question One

"All HTML tags are paired tags". Briefly discuss this with support of relevant examples. (3 marks)

# Question Two

Write a piece of code to insert an external CSS into an HTML document [Assumption: the CSS file is saved as styles.css]

# Question Three

Write an HTML code to insert an image as an anchor, which when clicked will navigate to a page called more\_info.html. Use your first name as the name of the image, with a PNG extension.

# Question Four

Among the ways to insert colors in an HTML webpage by using CSS is through the use of hexadecimal codes and RGB techniques. Using color GREEN as an example, show how you can insert it by using hexadecimal and RGB techniques.

## Question Five

With the aid of a diagram, differentiate between padding and margin in positioning HTML elements.

( Ing ser = " om Loro PHb" alle ' fr'

OMBENI O. MJWIMA 13327130/7.20 Bre- Mur. EDM HTML tags are Paired tags but others are 1. d tags. FOR Xample of paired tags are like paragraph tag and header tags LP > This is web programming L/P > - this is paired paragraph tag. Lhi> My first test 2/h1> \_ this is header Paired tag. But: Un Paired tags our like Images and break tas. 2 long sor = Musinia. jpg " at = womber. +z"> - This is unpaired tag. tute = "text | cus " href= / link rel = "stylesheet" 2. 11 styles. 45511/ <! DOCTYPE LIMI> 3. Chtm1> Lhead > Ltitle> (mage intertion) a andre # L/title> [ Mead > 1 body > hanse = " ombini. PN4)"> Picha-link 2 a hef = "more\_info.html" 2/95 1/20dy> 2/htm/>

By using hexadecimal codes to Insert CSS colors 4. · assume to use internal cis body 1 background - color: #OOFFOO; By using Wing RUB techniques. a body of background-color: Rys (00, 225,00); 5. To deal with from as dement to differentiate Padding and margin. Epanol ) France Lang Loane ChareNo Phone No ANA September 1 The diagram above explain the Padding Padding make the contents to be away from the border of the form below Gond Africk Padding-left: 10 P/ 3 of wind (di) id = Form 1"> While F-noru ( Four Lowell L-name[ them: thorpul. Margin Used to move the whole form as you went, may be margin left, you will move this if you create div for form eq. (div id = "formi") to more # # Frimit how - left: "Copx; 3 on shown

in the figure below.



# UNITED REPUBLIC OF TANZANIA MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY

#### MZUMBE UNIVERSITY FACULTY OF SCIENCE AND TECHNOLOGY



CSS 221: TEST 02

#### Instructions

- Attempt all questions
- Time allowed: 60 minutes

#### **Question One**

With examples, explain the difference between **authentication** and **authorisation** as applied in web applications. (3 Marks)

#### **Question Two**

Consider a database called KIKOBA, with a table called BALANCE, which is as seen below:

client_id	firstname	surname	balance
1	John	Shenyange	143000
2	Anna	Msemwa	76500
3	Suleman	Mutalemwa	452000
4	Bernadetha	Johnson	432500

The database is created in a MySQL server environment, hosted at an IP address 172.168.10.10. Where applicable, assume **your first name** to be the username of the administrator's account, while **your surname** is the corresponding password.

#### TASKS:

- a) Create an HTML form that will enable a user to submit their client's ID and the amount they wish to deposit as savings (to be added to the balance). (3 Marks)
- b) Create a PHP script that will add the amount submitted through the form in (a) to the current balance of the user having the submitted client's ID. If the client ID submitted in the form does not match any in the database, the user should be given an appropriate notification.

  (6 Marks)

#### Question Three

Create a PHP script that creates two sessions, named SURNAME and AGE, and then directs the user to a page called welcome.php

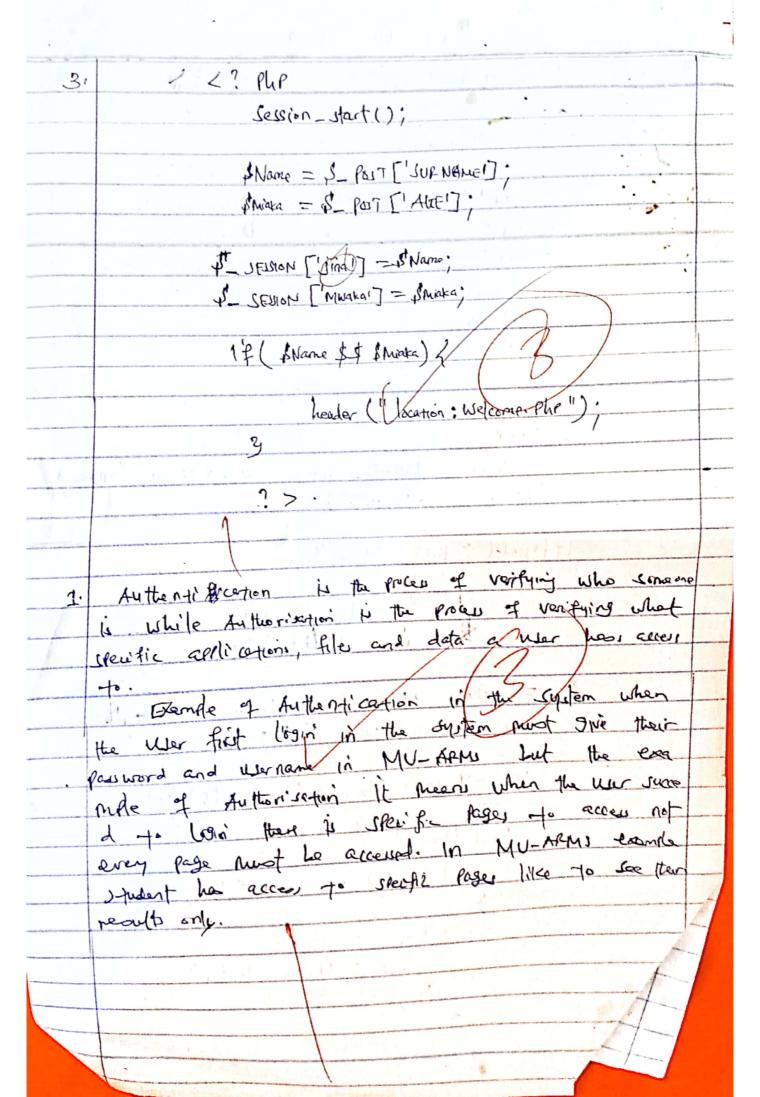
NB: assign any values to the two sessions, and you are not to create the page welcome.php
(3 Marks)

7- 7ERION [19] - 719;

17 ("

header ( "tocation : welcome . Phr ");

	Bec-MICT-ED42.			
2. (a)	LIDOCTYPE LIMI>			
	2h1m9 >			
	260Ay>			
	form action = " # " Melling " Post"			
	< infot type = " (ext)" nome = " client 14">			
	/ form action = " # " Melting = " Post" >  / infot type = " (ext)" nome = " client_1'+" >  / in fut type = " (ext)" name = "Balance" >			
	2 button tupe = "submit" Salmwan 2/Luttons			
***	2 Horms (1)			
	Ubody>			
	Whitmls.			
(T	): 29 Phr			
	pronnect = Mysqli_connect ("172.162.10.10.11 "ombani")			
	"Marinia", "KIKOBA");			
If (isset (&_ Past ['submit']))				
	Sid= 5- POST['client-id'];			
	SiBlanc = B_ Past [ Balanci];			
	\$ 9 = "UPDATE BALANCE SET balance = Lalance + Athalance			
	WHERE client id = pid"			
and the same of the same				
	squey = Mys Ali_ Avery (framect, 184);			
particular distribution de la constitución de la co	The second secon			
Africania procede del como de	17 ( Aguar) X			
Territoria de la casa de la composição d	edus " Addition success Pully ";			
And the second second second second	elsed			
- A CONTRACTOR OF THE PARTY OF	cahe " Addition failed";			
and the construction of the last				
Topus (in description in the control of the control	The state of the s			





## MZUMBE UNIVERSITY (CHUO KIKUU MZUMBE)

# Faculty of Science and Technology End of Semester II/Re-sit Examinations: July, 2022

Course Code:

CSS 221

Course Title:

Introduction to Web Programming

Programme:

BSc. ITS-II, ICTB-II & ICTM-II & EDU (MICT)-II

Date:

19/07/2022

Time:

0800 - 1100 Hours

Venue:

LT3, Mazengo - A110 & A113, Kingalu

## INSTRUCTIONS

- 1. There are Four (4) questions in this paper
- 2. Attempt All questions
- 3. Marks are indicated against the questions

## QUESTION ONE

(20 MARKS)

- a) Differentiate the following terms as applied in web programming: (a) 2 Marks)
  - Web application vs desktop application
  - ii. Front-end vs Backend
  - iii. Session vs Cookies
  - Get vs Post form methods
  - v. RGB vs hexadecimal codes for colors
- b) What are any four circumstances that would make you advise a client to adopt a web application as a solution to their problem? (10 Marks)

## QUESTION TWO

(20 MARKS)

- a) Assuming that there is already an HTML page structure with the head and body sections, create the following HTML elements:
  - i. An alphabetical ordered list of any five fruits.

(2 Marks)

- ii. A form with a field where a user can select only one region that they want to visit next out of a predefined list of regions in Tanzania. Use at least five (05) regions as sample. (3 Marks)
- iii. A table with four (04) rows and three (03) columns. The first row should be the header row, and the table must have a visible border. Use any contents for the table.

  (2 Marks)
- iv. An image with a JPG extension, which is also an anchor to a page named ue.php . The image should

have 300px and 90% height and width, respectively.
(2 Marks)

 A third level heading with at least one word bolded, one word underlined, and one word in italic.

(2 Marks)

- vi. A form with at least one input field and a reset button, that when placed will set the input field to its initial value.

  (3 Marks)
- b) What are the roles of the following technologies in making a website available to users? (a) 2 Marks)
  - i. Web server
  - ii. DNS
  - iii. Web browser

## QUESTION THREE

(20 MARKS)

- a) "CSS has no effect without HTML." Explain. (3 Marks)
- b) With the aid of a diagram, differentiate between margins and paddings in CSS. (5 Marks)
- c) With examples, briefly explain any three CSS properties related to fonts. (6 Marks)
- d) Differentiate between DIV ID and DIV CLASS from the HTML point of view. How do they differ as CSS selectors?

(6 Marks)

## QUESTION FOUR

(40 MARKS)

Assuming that there is a database called SHOP, with two tables: STAFF and PRODUCT, that have the following data:

#### Staff

staff_id	firstname	surname	sex	secret_phrase
1	LUGHANO	MWAKAPUKU	М	Mbeya
2	AMULAWM	IDRISSA	F	Binti wa Idrissa
3	BERNADETHA	SALVATORY	F	Niacha kama niliana

NB: staff\_id is the Primary Key

#### Product

product_id	product_name	quantity	price	staff_who_updated
1	SABUNI YA MAJI		1500	
2	CHUMVI	60	200	1
3	DODOKI	100	350	3

NB: product\_id is the Primary Key, while staff\_who\_updated is a Foreign Key that references the staff\_id in the STAFF table.

Also, the database is hosted in a MySQL server having an IP address 192.168.1.10, with admin and admin1234 as the username and password of the administrator's account, respectively.

# TASK - create a web application that:

- a) Has a page where a staff can submit their ID and secret phrase for authentication. If successful, the page creates a session for the staff's ID and directs them to a page called **staff.php**. If not successful, the system should notify the user accordingly. (10 Marks)
- b) In the page **staff.php**, it enables a staff to sell a product by submitting the product's name and quantity to be sold in a form. The system should then update the quantity of the product in the database by deducting the amount sold. **NB:** If the sale would result into a negative balance, the system should notify the staff of the situation and reject the sale. Moreover, the system should store the

ID of the staff who conducted the sale in the database.
(20 Marks)

c) Has another page called delete.php, where a staff can delete a product by simply filling its ID in a form and submitting it. If successful, the staff should be notified accordingly. (10 Marks)