



(Knowledge for Development)

## KIBABII UNIVERSITY

(KIBU)

## UNIVERSITY EXAMINATIONS 2022/2023 ACADEMIC YEAR

# END OF SEMESTER EXAMINATIONS SECOND YEAR FIRST SEMESTER EXAMINATIONS

FOR THE DIPLOMA IN
(INFORMATION TECHNOLOGY)

COURSE CODE: DIT 068

**COURSE TITLE: WEB PROGRAMMING** 

DATE: 13/12/2022

TIME: 9.00 A.M - 11.00 A.M

INSTRUCTIONS TO CANDIDATES
Answer Questions ONE and ANY OTHER TWO.

## QUESTION ONE (COMPULSARY) [24 MARKS]

	a.	Def	ine the following terms	
		i.	Web Technologies	[2 Marks]
		ii.	Web Development	[2 Marks]
		iii.	Application Programming Interface (API)	[2 Marks]
		iv.	HTML Elements	
1	o.	With	n examples distinguish between a Web Server and a Web Bi	[2 Marks]
			of the web Bi	
C		Writ	e down the source code of a simple html page displaying the	[4 Marks]
		mess	age with a page title as "My First Web Page."	
d		Write	e the following abbreviations in full giving the function of e	[4 marks]
			g-ing the function of e	
		i.	TCP	[8 Marks]
		ii.	URL	
		iii.	HTTPS	
		iv.	HTML5	
QUESTION TWO [18 MARKS]				
a.	a. Write the HTML source code that will attach a CSS3 file called "main.css"			
	W	nich	is located in a sub directory to the html page called CSS3.	[2 Marks]
b.	D	escri	be the CSS syntax giving out an example	[4 Marks]
c.	b.	Wha	at does the following CSS code do to a html page.	[6 Marks]
p, h1, h2 {				
		(	color: blue;	
		f	Cont-family: Roboto;	
		f	ont-size: 12 px1;	

}

d. With example, give a simple CSS syntax to change the color of a h1[2 Marks]

e. Illustrate the CSS box model

[4 Marks]

## **QUESTION THREE [18 MARKS]**

- a. List and explain four security requirements that should be considered in when designing a website
   [8 Marks]
- b. Differentiate between a browser and a search engine. Giving examples.

[4 Marks]

c. Using examples, illustrate THREE ways one can organize the layout of a web page.

[3 Marks]

d. Explain the THREE levels of a CSS

[3 Marks]

### **QUESTION FOUR [18 MARKS]**

a. Discuss the aspects of server-side scripting/programming

[4 Marks]

b. Consider the following arrays and conditions, what do you think would be the result?[3 Marks]

```
const arr1 = ['a', 'b', 'c']

const arr2 = ['c', 'b', 'a'] console.log (
    arr1.sort() === arr1,
    arr2 === arr2.sort(),
    arr1.sort() === arr2.sort()
)
```

c. What do you think the output would be?

[3 Marks]

```
for (var i = 0; i < 5; i++) {
setTimeout (function () {console.log(i);}, i * 1000 );
}
```

- d. Write down the HTML source code that will import a JavaScript file "script.js" to a user's html page that is in the same directoy [2 Marks]
- e. Up to how many functions can be written validly inside a single HMTL SCRIPT element [2 Marks]
- f. Write a JavaScript code that will be set on a button to show password when clicked and hide it after mouse up [4 Marks]

#### **QUESTION FIVE [18 MARKS]**

- Write a code that will insert an Image abc.jpeg that is on the same server as the html page and compare it to the same image being in "https://kibu.ac.ke/abc.jpeg
   [2 Marks]
- **b.** Write the html source code that will generate the following output [10 Marks]

My First Web Page

Veleome To My Web Programming HT.ML page

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- c. Differentiate between a Static website and a Dynamic website [2 Marks]
- d. Differentiate between Internet and World Wide Web (WWW) [2 Marks]