



*(Knowledge for Development)*

**KIBABII UNIVERSITY**

**UNIVERSITY EXAMINATIONS  
2022/2023 ACADEMIC YEAR**

**END OF SEMESTER EXAMINATIONS  
YEAR TWO SEMESTER ONE EXAMINATIONS**

**FOR THE DEGREE OF BACHELOR OF SCIENCE  
COMPUTER SCIENCE**

**COURSE CODE : CSC 213**

**COURSE TITLE : APPLICATION**

**DEVELOPMENT FOR THE INTERNET**

**DATE: 21/12/2022**

**TIME: 2:00 P.M – 4:00 P.M.**

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**INSTRUCTIONS TO CANDIDATES**

**ANSWER QUESTIONS ONE AND ANY OTHER TWO.**

## QUESTION ONE (COMPULSORY) [30 MARKS]

- a. i. Identify the relationship that exists between and among application programs, user devices and the internet [2 Marks]
- ii. What are scripts? [2 Marks]
- iii. Interpret their importance to server side programming [2 Marks]
- b. Illustrate your understanding of the importance of HTML, CSS and JavaScript in the creation of web applications [6 Marks]
- c. i. As a qualified web application developer, summarize **interface** in two words that indeed describe what it is [2 Marks]
- ii. Describe the two major functions of interface in a web application [4 Marks]
- iii. Write code that will give the following output [4 Marks]
- Male
- Female
- iv. Differentiate between radio buttons and checkboxes [2 Marks]
- d. i. Describe what iframes are used for [2 Marks]
- e. Write the syntax for:
- i. Adding an iframe [2 Marks]
- ii. Setting the height and width of an iframe (Height 200, width 100px) [2 Marks]

## QUESTION TWO [20 MARKS]

- a. i. Show your understanding of the term web usability [2 Marks]
- ii. Describe three goals of usability that you'll have in mind as a web developer [6 Marks]
- b. i. While using CSS more than one style can be specified for an HTML element. This is implemented in the browser using a cascading order. What is a cascading order? [2 Marks]
- ii. Describe how the cascading order will be implemented by the browser beginning with the one with least priority to one with the highest [4 Marks]
- c. Illustrate three ways in which CSS specifies color [6 Marks]

## QUESTION THREE [20 MARKS]

- a. As a web application developer, describe the following terms that you will be using giving an example in each

CSS Syntax

[2 Marks]

Selector

[2 Marks]

Declaration

[2 Marks]

Property

[2 Marks]

Value

[2 Marks]

Comment

[2 Marks]

- b. i. What are the default settings of a background image? [2 Marks]
- ii. What does background repeat property do for a background image? Write the syntax [4 Marks]
- iii. Why is shorthand property important when writing code in CSS? [2 Marks]



#### QUESTION FOUR [20 MARKS]

- a. Enumerate three advantages and three disadvantages of CSS [6 Marks]
- b. As a web developer, write the syntax that you will use to decorate text in your web application in four different ways [4 Marks]
- c. i. With the aid of a table, describe three types of font families found in the generic family [6 Marks]
- ii. Differentiate between the absolute size and relative size as used in font size [4 Marks]

#### QUESTION FIVE [20 MARKS]

- a. i. Detail four link states found in CSS [4 Marks]
- ii. Describe two types of lists that you are likely to find in CSS showing the distinction between them. [4 Marks]
- iii. Write the syntax that you will use to write two list item markers in CSS [4 Marks]
- iv. As a web developer you can use an image as a list item marker. Write CSS syntax that will put an image saved as 'flower.gif' to be a list item marker. [2 Marks]
- b. Detail step by step syntax how you will have a table of four rows and three columns with a border of 40px in your web page. [6 Marks]