



(Knowledge for Development)

KIBABII UNIVERSITY

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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. Define the following terms
 - i. Web Technologies [2 Marks]
 - ii. Web Development [2 Marks]
 - iii. Application Programming Interface (API) [2 Marks]
 - iv. HTML Elements [2 Marks]
- b. With examples distinguish between a Web Server and a Web Browser

[4 Marks]

- c. Write down the source code of a simple html page displaying the hello world message with a page title as "My First Web Page." [4 marks]
- d. Write the following abbreviations in full giving the function of each

[8 Marks]

- i. TCP
- ii. URL
- iii. HTTPS
- iv. HTML5

QUESTION TWO [18 MARKS]

- a. Write the HTML source code that will attach a CSS3 file called "main.css" which is located in a sub directory to the html page called CSS3. [2 Marks]
- b. Describe the CSS syntax giving out an example [4 Marks]
- c. b. What does the following CSS code do to a html page. [6 Marks]

p, h1, h2 {

color: blue;

font-family: Roboto;

font-size: 12 pxl;

}

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]

- a. 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

Obs.

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]