



*(Knowledge for Development)*

**KIBABII UNIVERSITY**

**(KIBU)**

**UNIVERSITY EXAMINATIONS**

**2019/2020 ACADEMIC YEAR**

**SPECIAL/SUPPLEMENTARY EXAMINATIONS**

**YEAR TWO SEMESTER ONE  
EXAMINATIONS**

**DIPLOMA IN IT**

**(INFORMATION TECHNOLOGY)**

**COURSE CODE : DIT 068**

**COURSE TITLE : WEB PROGRAMMING**

**DATE: 04/02/2021**

**TIME: 8.00 A.M – 10.00A.M**

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**INSTRUCTIONS TO CANDIDATES**

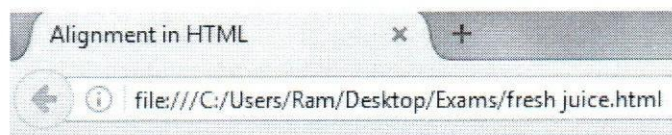
**ANSWER QUESTIONS ONE AND ANY OTHER TWO.**

### QUESTION ONE (24 Marks)

- a. What is the difference between the Web and Internet? [2 Marks]
- b. Using examples differentiate between a web browser and a web server. [2 Marks]
- c. Differentiate between integrity and authentication in web programming. [2 Marks]
- d. Discuss any **FOUR** characteristics of a web user. [4 Marks]
- e. Explain the **THREE** levels of a CSS. [3 Marks]
- f. Briefly explain why Apache is the most widely used Web Server [2 Marks]
- g. Write a PHP script that connects to a MYSQL database called *kibabii* using the default MYSQL login credentials. [3 Marks]
- h. Write a CSS script that will:- [4 Marks]
- Sets a fixed width of every page to 600px.
  - Set background colour of every page to blue.
  - Set the font of the body content to Tahoma, Bold and Italic.
  - Set all H2 tags to centre of page.
  - Set the colour of all links to white.
- i. Write the line of code that will add the CSS you above to a page in your website. Assume it was saved as *edit.css*. [2 Marks]

### QUESTION TWO (18 Marks)

- a. Write html code for a link to a section named “**Student Details**” on the page *students.php* on a website with domain name *dit068.ac.ke*. Your link should have a clickable area of 8px. The text displayed is **STUDENT** [3 Marks]
- b. Write a complete HTML that will produce the output shown below [4 Marks]



1. Oranges
  - o Fresh Mangoes from farm
2. Mangoes
  - o Fresh Juice
3. Bananas
  - o Green Bananas for cooking matoke

- c. Briefly explain THREE characteristics of a good domain name. [3 Marks]
- d. Using HTML, write the code that will create a horizontal navigation bar with links *Home*, *About us*, *Our Services* and *Contact Us*. [3 Marks]
- e. Explain **THREE** factors to consider before hosting a website locally. [3 Marks]

- f. Write a HTML script to design the following form object. The username is displayed in plaintext while password **MUST** be displayed as either asterisk or dots. [2 Marks]

Username:

Password:

### QUESTION THREE (18 Marks)

- a. Using examples, illustrate **THREE** ways one can organize the layout of a web page. [3 Marks]
- b. Briefly explain **TWO** reasons why a duplicated page title is considered a poor web design technique. [2 Marks]
- c. Write a CSS that will display links in blue, to change to red and be underlined when a mouse is over it, to change to black when visited and green when active. [4 Marks]
- d. Briefly explain the importance of using white spaces in web design. [3 Marks]
- e. Explain any **THREE** factors to be considered while considering using an ISP for hosting your website. [3 Marks]
- f. Content is the key to a good site. State any **THREE** criteria that web content must satisfy [3 Marks]

### QUESTION FOUR (18 Marks)

- a. Write a JavaScript to validate the following fields as per the conditions given; StudentID field should not be null, feeBalance should only contain numerical values and the EmailAddress field should contain a valid e-mail address. [6 Marks]
- b. Define a broken link and briefly explain how it comes about. [2 Marks]
- c. State any **FOUR** merits of hosting a website with an ISP [2 Marks]
- d. Explain giving two reasons why a duplicated web title is considered a poor website technique. [4 Marks]
- e. Write a PHP script for uploading an image to the directory /home/images and save the image name to a MYSQL table image in the database album. Note: /home is the root directory of the website. Use MYSQL default login credentials. [4 Marks]

### QUESTION FIVE (18 Marks)

- a. What is a domain name? Give an example of a domain name. [2 Marks]
- b. Differentiate between a browser and a search engine. Giving examples. [2 Marks]
- c. Write a link that will direct a user to the **Student Grades** section on the page *students.php* from the page *home.php*. Show the code excerpt for the target section. [3 Marks]
- d. Content is key to a good site. State any **THREE** criteria that web content must satisfy. [3 Marks]

e. Write the output for the HTML code shown below.

[4 Marks]

```
<html>
<head><title>Tables in Html</title></head>
<body>
<table border="border">
<tr>
<th>COURSE CODE</th>
<th>COURSE TITLE</th>
<th>SCORE</th></tr>
</tr>
<tr>
<td>DIT 066</td>
<td>NETWORKS</td>
<td>80</td>
</tr>
<tr>
<td>DIT 067</td>
<td>SECURITY</td>
<td>94</td></td>
</tr>
<tr>
<td>DIT 068</td>
<td>WEB DESIGN</td>
<td>80</td>
</tr>
<tr>
<td>DIT 069</td>
<td>CLIENT/SERVER</td>
<td>67</td>
</tr>
<tr>
<td>DIT 070</td>
<td>ETHICS</td>
<td>70</td>
</tr>
</table>
</body>

</html>
```

f. List and explain four security requirements that should be considered in when designing a website. [4 Marks]