



*(Knowledge for Development)*

**KIBABII UNIVERSITY**

**(KIBU)**

**UNIVERSITY EXAMINATIONS  
2017/2018 ACADEMIC YEAR**

**SUPPLEMENTARY/SPECIAL EXAMINATIONS  
YEAR ONE SEMESTER TWO EXAMINATIONS**

**FOR THE DIPLOMA  
(INFORMATION TECHNOLOGY)**

**COURSE CODE : DIT 068**

**COURSE TITLE : WEB PROGRAMMING**

**DATE: 11/10/2018**

**TIME: 3.00AM – 5.00PM**

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**INSTRUCTIONS TO CANDIDATES**

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

**Question one (Compulsory) [24 MARKS]**

- a) Websites are said to be a good investment to an organization. Justify this assertion. [5 Marks]
- b) Differentiate between the following concepts [6 Marks]
- i) Client side scripting and Server side scripting
  - ii) Dynamic websites and Static websites
  - iii) Session and Cookie
- c) Write a php function that can be used to calculate the sum of two numbers [5 Marks]
- d) What is CGI and why was it introduced? [4 Marks]
- e) What is a URL. Explain using examples the basic parts that a URL uses to accomplish this task. [4 Marks]

**Question Two [18 Marks]**

- a) More browsers are including support for style sheets. [2 Marks]
- i) What is a style [2 Marks]
  - ii) Explain three mechanisms by which we can apply styles to our HTML documents? [3 Marks]
  - iii) What is the difference between a markup language and a programming Language. Explain this giving examples? [2 Marks]
- b) Static webpages are fine, they are useful and can be entertaining or informative however people are moving away from the static webpages to the dynamic webpages. Explain. [2 Marks]
- c) Anastacia is a student on attachment at Riaya supermarket in the Information Technology department. She requested by the IT manager to come up with a website for the supermarket. [6 Marks]
- i) Explain the basic elements she will consider to include in the website [6 Marks]
  - ii) List three Programs that the user will use to view the web pages [1 ½ Marks]

- iii) List and explain three scripting languages she may use to complete her assignment  
[1½ Marks]

**Question Three [18 Marks]**

- a) Differentiate between `mysql_fetch_array()` and `mysql_fetch_row()` function. [3 Marks]
- b) Explain the work of `mysql_connect()` function in PHP. [4 Marks]
- c) A post form has a text field named *age* that expects user to key in age as an integer. Write a PHP code excerpt that will validate the content of this field and display “*Age must be an integer*” if a user enters anything else. If the user enters an integer, it displays “*Minors not Allowed*” if age is below 18 or “*You are too old for this*” if age is above 60 otherwise it displays “*You are allowed to participate*”. [5 Marks]
- d) List and explain any three factors to be considered when reuting for a server to host your website from an internet service provider. [6 Marks]

**Question Four [18 Marks]**

- a) Write a simple JavaScript function that adds some numbers together and return the results [4 Marks]
- b) Creating a good website is like having the ability to create a good art after having understood the basic guidelines to paint. Identify SIX guidelines a webmaster should follow when making a detailed design. [6 Marks]
- c) In one way or another as a web programmer you must interact with databases. Explain any four factors you will consider in choosing a database management system to use in developing your application. [8 Marks]

**Question Five [18 Marks]**

- a) Briefly explain four options of web hosting [4 Marks]
- b) A dynamic HTML function consists of four parts. Name and explain them. [4 Marks]
- c) Write a javascript code showing how you can use javascript in a HTML document.[2 Marks]
- d) Study the table below

KIBUCO Exam Grading		
Mark Range	Grade	Comment
70-100	A	Excellent
60-69	B	Good

Write HTML codes that can be used to create the table above

[4 Marks]

- e) Write a php statement that may provide connection to mysql server .Given the following parameters: name of the server: "CIS", username:"student" password: "pass" [4 Marks]