FACULTY OF INFORMATION TECHNOLOGY

BACHELOR OF BUSINESS INFORMATION TECHNOLOGY

Assessment (BBT 2102)

**1. Using a diagram, illustrate the web development architecture. (5 marks)**

This is a representation of the interaction of the various parts of the application both in the frontend and backend to carry out its tasks. These are the Interface with a web browser where the user interacts with the device through html, css and js, the database that stores information and web servers that contains the logic. It uses protocols to responds to request made by the user and accesses the databases to retrieve information.

**2. Distinguish between the following:**

1. **Backend and frontend. (2 marks)**

Backend is the server side of a website, it contains App logic, stores and arranges data and ensures that the client-side works perfectly while frontend is part of website that users see and interact with.

1. **HTML and DOM (2 marks)**

Hypertext Markup Language is a scripting language used to create parts of web pages and web applications while DOM is a model that defines the logical structure of a document

**3. What is a server? (1 mark)**

Could be software or hardware that uses protocols to responds to request made by clients over the web and controls access to resources.

**4. You intend to buy a shoe from “muuzaji.co.ke”, should you care about the protocol used i.e. http vs https? (1 mark)**

Yes, you should. Though https is simply an encrypted version of http, it is also far more secure therefore protecting the user as sensitive information such as online payment details is secured.

**5. I have recently paid for a domain (10 minutes ago), however I try typing my domain name and get a “This site can’t be reached” message. Have I been conned? (2 marks)**

Not necessarily. Sometimes it just takes time for the domain to load up and communicate to the server and properly set the address.

**6. Assume a web page is written in PHP, how come I cannot download the PHP source code from my web browser? (2 marks)**

This is because PHP is a server-side language therefore all the scripts are executed on the server before being taken to the browser hence the browser does not really access the script but instead a html page to display the response.

**7. Write a short PHP script that displays “hello bujumbura”. (1 mark)**

<!DOCTYPE html>

<html>

<body>

<div class= “container”>

<?php

Echo “hello bujumbura”

?>

</body>

</html>

**8. Style your message using CSS to heading one. (1 mark)**

**9. Add a script such that if you click “hello bujumbura” it displays an alert saying, “Burundi massive!” (1 mark)**

**10. Write a script that connects to a database and adds a record. (5 marks)**

<?php

session\_start();

$db = mysqli\_connect(‘localohost’, ‘root’, ‘’, ‘add’);

$name = “”;

$number = “”;

If(isset($\_POST[‘save’])) {

$name = $\_POST[‘name];

$number = $\_POST[‘number];

mysqli\_query($db, "INSERT INTO info (name, number) VALUES ('$name', '$number')");

$\_SESSION[‘message’] = “saved”;

}

?>