



SCHOOL OF PROFESSIONAL STUDIES

BACHELOR OF INFORMATION COMMUNICATION TECHNOLOGY

UNIT CODE/NAME: BBIT 325: WEB DESIGN AND PUBLISHING

January – April 2018/2019 End Semester Exam - Time: 2 Hours

Instructions: Answer Question ONE (Compulsory) and any other TWO questions.

QUESTION ONE

- a) Explain the following types of websites (2marks)
 - i. Dynamic Website
 - ii. Static Website
- b) Explain four rules that must be observed when naming PHP variables (4marks)
- c) Write a PHP code using the **for loop** to display all the even numbers between 0 and 30 in a descending order (3marks)
- d) Describe any four capabilities of PHP (4marks)
- e) Define the array and state any application of array (2marks)
- f) Write a PHP code to demonstrate array usage in web application (3marks)
- g) Write a PHP Code to demonstrate how to declare variables with the following data types (3marks)
 - i. String
 - ii. Integer
 - iii. Float
- h) Differentiate between PHP Variable and PHP Constant (4marks)
- i) Explain the following terms (3marks)
 - i. Cookies
 - ii. Session

iii. Variable

j) Describe the following classification of languages

(2marks)

- i. Server Side scripting
- ii. Client-side scripting

QUESTION TWO

a) Write a PHP Code for calculating the area of a circle, given that the area of circle is calculated as follows: **Area of circle = pi * radius * radius**

Where the value of pi = 3.142 and held in a PHP Constant known as **pi**, the value of radius is entered by the user through a text field known as radius. The calculation is triggered when the user click on a button and the values of the radius and area are displayed as the outputs.

(7marks)

b) Describe the importance of HTML Form in a web page

(2marks)

c) Distinguish between the **include()** and **require once()** functions in PHP

(4marks)

d) Describe following HTML form methods

(2marks)

- i. POST
- ii. GET

QUESTION THREE

a) Discuss the concept of Client/Server Architecture in regards to PHP Web Application (6marks)

b) Write a PHP code that displays today's date using the **date()** function in a text field (2marks)

c) Discuss why PHP /MYSQL is the most popular platform for web application development on the world wide web (WWW) (7marks)

QUESTION FOUR

a) Write a PHP code that will generate the following pattern

(3marks)

```
@
@@
@@@
@@@@
@@@@@
```

b) List three components of a PHP webpage

(3marks)

c) Describe three characteristics of a good website

(3marks)

d) Explain Web application development life cycle

(6marks)

QUESTION FIVE

- (a) Given below is an online form for course registration by student. The student fills the details as shown below then on clicking Register button then the details as submitted for processing and saved in a MYSQL Database called **myschool_db** in a table **students**

Registration

Please complete all fields

First Name:

Last Name:

E-mail:

Phone:

Course taken:

Gender:

Required:

- Write the HTML Code for displaying the above form (7marks)
- Write the PHP code for saving the form data to the MYSQL database once the button submit order is clicked (8marks)