

COURSE NAME: Web-based Database Development

COURSE CODE: 2204

GROUP: DIPLOMA IT and CS

DATE: 25<sup>th</sup> July 2016

DURATION: 2 ½ HOURS (9:00 AM – 11:30AM)

**EXAMINATION INSTRUCTIONS**

1. ATTEMPT ANY FIVE (4) QUESTIONS
2. DO NOT OPEN THIS EXAM UNTIL YOU ARE TOLD TO DO SO
3. ALL ROUGH WORK SHOULD BE IN YOUR ANSWER BOOKLET

**Question one:**

- (a) Differentiate between the following: [6 marks @]
- (i) Static and Dynamic
  - (ii) PHP and Web Server
  - (iii) IDE and Zeus
  - (iv) Scripting language and ordinary programming like C++
- (b) Describe the term apache. [1 marks]

**Question two:**

- (a) .
- (i) Describe any three benefits of static website [6 marks]
  - (ii) Describe any three disadvantages of static website. [6 marks]
  - (iii) Describe the challenge search engines encounter with dynamic website. [3 marks]
- (b) Describe any three benefits of PHP compared to other scripting languages. [6 marks]
- (c) Identify any two tools/software useful in development and deployment of PHP. Briefly describe their role. [4 marks]

**Question three:**

- (a) Describe the following terms: [15 marks]
- (i) Variable
  - (ii) \$\_POST["name"]
  - (iii) sort()
  - (iv) rsort()
  - (v) ksort()
- (b) Describe the following statements. [8 marks]
- (i) PHP is case sensitive statement
  - (ii) PHP is loosely typed language

(c) Write a PHP program to display the following output:

[2 marks]

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#### Question four:

(a) Identify any five errors in this code:

[5 marks]

1. <?

2. \$num1 = 2 // num is declared a variable and is assign to a value of 2

3. ECHO "HELLO" ; // display message on the screen

4. num2 = 4; // num is declared as variable and is assigned a value of 4

5. \$sum = "\$num1" + \$num2; // variable sum stores the sum of \$ num1 and \$num2

6. >

(b) Describe the mechanism of a dynamic website using a diagram.

[8 marks]

(c) Give three ways of writing a PHP program

[6 marks]

(d) With examples describe any three types of arrays.

[6 marks]

#### Question five:

(a) Explain what each line of the code below does:

[8 marks]

1. \$name="PAUL";

2. echo \$name."<BR><BR>";

3. \$db=mysql\_connect("localhost", "root", "test");

4. mysql\_select\_db("masaka", \$db);

(b) Given \$fruit= array ( "Orange", "Mangoes", "Tomatoes" ); Using a for loop write a PHP code to display the following output.

Number	Animal
0	Orange
1	Mangoes
2	Tomatoes

[8marks]

(c) What is the role of the following functions.

[5 marks]

(i) gettype ()

(ii) concatenation symbol

(iii) explode()

(iv) operator precedence

(v) i++

(d) What is output from the following statement.

[2 marks]

<? \$a= " aaabbb ccc dddd"; echo str\_replace ("aaa", "eee", \$a); ?>

(e) Write a php program using a for loop to display the first 20 integers.

[2 marks]