

UGANDA MARTYRS' UNIVERSITY  
FACULTY OF SCIENCE  
DEPARTMENT OF INFORMATION SYSTEM  
NKOZI CENTER

SEMESTER II EXAMINATIONS 2014/2015

YEAR OF STUDY: II

COURSE NAME: Web-based Database Development

COURSE CODE: 2204

GROUP: BSC-IT(II), BSC-GEN(II)

DATE: 29<sup>th</sup> MAY 2016

DURATION: 3 HOURS

(2:00 – 5:00)PM

EXAMINATION INSTRUCTIONS

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

**Question1:**

(a) What is meant by the following terms

[3 marks @]

- (i) Static website
- (ii) Dynamic website
- (iii) Web server
- (iv) PHP engine
- (v) phpinfo()
- (vi) Client scripting
- (vii) IDE

(b) Explain any two (2) benefits of a dynamic website over a static website. [4 marks]

**Question2**

(a) With the aid of a diagram describe the mechanism of a dynamic site which employs PHP as one of the major components. [7 marks]

(b) Explain any three (3) benefits of PHP over other scripting languages. [6 marks]

(c) Explain any three factors to consider whether to implement a dynamic website or a static site. [6 marks]

(d) .

(i) Explain incompatibility issues that sometimes arise between a dynamic website and a search engine. [2 marks]

(ii) How can you resolve that incompatibility? [2 marks]

(iii) How do you tell that a url is for a dynamic or a static website. [2 marks]

**Question3**

(a) What do you understand by the following terms in relation to PHP scripting?

[2 marks @]

- (i) rsort()
- (ii) count(\$names)
- ~~(iii) rsort()~~
- (iv) sort()
- (v) \$\_POST['num1']

(b) Give the output from the following codes.

[3 marks @]

(i) `<php? $a; $b; $c=$a + $b; echo "OUT COME"; echo $c; ?>`

(ii) `<php? $name="PAUL"; echo "HELLO"; echo "<br>"; echo $name; ?>`

(c) .

(i) Describe any three rule governing variable in PHP. [3 marks]

(ii) Explain differentiate between a case sensitive language and loosely typed language. [4 marks]

(iii) Give three (3) of writing a PHP script.

[2 marks] (3 marks)

#### Question4

- (a) What is an array? [2 marks]
- (b) Describe any advantage of an array compared to a scalar variables. [2 marks]
- (c) With an example describe any three types of arrays used in PHP. [6 marks]
- (d) You are given **\$universities = array ("UMU", "MAK", "MUST");**
- (i) Using above the array, write a full php code to display: **MAK** [3 marks]
- (ii) Using a for loop, write a full php script to display the following out. [4 marks]
- UMU**  
**MAK**  
**MUST**
- (iii) Modify your code above so that it can give the following output. [3 marks]
- UMU... MAK.... MUST**

- (e) Identify any five errors in the following code. [5 marks]

1. <?
2. \$name1= 2 //num is declared a variable and is assign to a value of 2
3. echo GOOD ; // display message on the screen
4. name2 = 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. >

#### Question5

- (a) Describe any two ways of commenting PHP programming. [4 marks]
- (b) Write a program using if statement to display the output with respect to the values of num given. [4 marks]

| When Num is              | Out put           |
|--------------------------|-------------------|
| 5                        | Num is five       |
| 7                        | Num is seven      |
| Any value but not 5 or 7 | Num is not 5 or 7 |

- (i) [4 marks]
- Given \$maleparent= array ( "English "=>"father", "French"=>"papa", "Swahili"=>"baba");
- Use the array above to write a code using **while loop** that displays the following output:
- English ..... father  
French .....papa  
Swahili .....baba

- (c) Develop an application to multiply two numbers. The application gets these numbers from a form named send.html. There are two text fields on this form; one text field is labeled as num1 and the other as num2. The form also has button labeled as FIND PRODUCT and when clicked it sends the numbers to get.php file. This PHP file multiplies the two numbers and displays the output as shown in the sample below.

### **The product of X and Y is Z.**

The value of X is entered on the first text field and the value of Y is entered on the 2nd text field, Z – the product of X and Y

- (i) Provide the sketch of the import form ie send.HTML [2 marks]
- (ii) Provide the html code for the form you have sketched. [4 marks]
- (iii) Provide the code for get.php. [4 marks]

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

- 1. `$db=mysql_connect("localhost", "root","test");` [1 marks]
- 2. `mysql_select_db("masaka", $db) or die ("ERROR TO DBASE");` [1 marks]
- 3. `$query="SELECT * FROM student";` [1 mark]

**END**