

UGANDA MARTYRS UNIVERSITY

FACULTY OF SCIENCE

DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION SYSTEMS

END OF SEMESTER FINAL ASSESSMENT

2018/19

SECOND YEAR EXAMINATION FOR BACHELOR OF SCIENCE INFORMATION TECHNOLOGY

WEB BASED DATABASE PROGRAMMING

COURSE CODE: CSC 2202

DATE: 25th / June / 2019
TIME: 4:00 pm - 7:00 pm
DURATION: 3HRS

Instructions:

1. Carefully read through ALL the questions before attempting
2. **Section A** is compulsory
3. Attempt **ANY THREE (3)** Questions from **Section B**
4. Answers for each of the Questions attempted should start on a new page.
5. No **names** should be written anywhere on the examination book.
6. Ensure that your **Registration Number** is indicated on all pages of the examination answer booklet.
7. Ensure your work is **clear and readable**. Untidy work shall be penalized
8. Any type of examination Malpractice will lead to automatic disqualification
9. Do not write anything on the questions paper.

SECTION A (40 Marks)

Question 1

- a) Explain the difference between POST and GET as used in HTML forms. 5 marks
- b) Write HTML code for a form that accepts data from a web user having the following entries; Name, Phone, Address, Country and Date of birth; the form is to be posted to *adduser.php* script on submission. 10 marks
- c) Write an SQL statement that creates a table *User* that stores data in a) above. 5 marks
- d) Write PHP code for *adduser.php* that receives posted values in a) above when submitted and inserts it into the *User* table in the *UMUSU* database. 10 marks
- e) Write PHP code to generate the report below from *User* table. 10 marks

REGISTRATION REPORT

| Name | Phone | Address | Country | Date of Birth |
|---------|------------|---------|---------|---------------|
| Peter | 0703459542 | Mengo | Uganda | 10-06-1996 |
| Susan | 0772426540 | Bwala | Kenya | 12-07-1998 |
| William | 0773486454 | Katwe | Uganda | 16-10-2000 |

Prepared by: James

Date: current date

SECTION B (60 Marks)

Question 2

- a) Write short notes on the following:
- i. XAMP 4 marks
 - ii. Dynamic website 4 marks
- b) In relation to XAMP, explain the significance of *htdocs* directory. 4 marks
- c) Write a PHP program to display positive numbers < 100 that are divisible by 3. 8 marks

Question 3

- a) Describe how the following are useful in web based programming
- i. Sessions 4 marks
 - ii. SQL Injections 4 marks
 - iii. Encryption 4 marks
 - iv. PHPMyAdmin. 4 marks
- b) Explain giving examples how CMS are helpful in website development. 4 marks

Question 4

- a) Give any two editors for PHP. 2 marks
- b) Why is PHP an important scripting language? 4 marks
- c) Define the terms below with an example in PHP: 2 marks
- i. Variable 2 marks
 - ii. Multi-line Comment 4 marks
 - iii. Switch
- d) Write a PHP program that creates variables X and Y with values 80 and 20 respectively. The program computes and display the sum and product of X and Y. 6 marks

Question 5

- a) Write SQL queries that creates the table below and insert the three records. 9 marks

| Reg No | CWMark | EMark |
|--------|--------|-------|
| UMU10 | 80 | 56 |
| UMU11 | 72 | 78 |
| UMU12 | 45 | 67 |

- b) Write an SQL query that deletes record with Reg No= UMU12. 3 marks
- c) Write an SQL statement that updates the EMark for **UMU12** to **84**. 3 marks
- d) Write an SQL statement that displays RegNo and CWMark in the table above. 3 marks
- e) Why is MySQL a preferred DBMS for web development? 2 marks

Question 6

- a) Explain form validation with a suitable example. 5 marks
- b) Explain CSS and JavaScript. What is their purpose in web development? 5 marks
- c) Explain the meaning of each of the attributes in the statements in the code below and state its purpose. 6 marks
- <script src="myjavascript.js" type="text/javascript"></script>**
- d) Write the code for mystyle.css to do the following: 4 marks
- i. `var x = parseInt(value2.value);`
 - ii. `alert("Type a Password");`

END