



**KIBABII UNIVERSITY COLLEGE**

*(A Constituent College of MasindeMuliro University of Science Technology)*

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**UNIVERSITY REGULAR EXAMINATIONS**

**2013 /2014 ACADEMIC YEAR**

**2<sup>ND</sup> YEAR 2<sup>ND</sup> SEMESTER EXAMINATIONS**

**(MAIN EXAMINATION)**

**BACHELOR OF EDUCATION SCIENCE**

**COURSE CODE: CSC 212**

**COURSE TITLE: Introduction to Database System**

**DATE: 17<sup>TH</sup> APRIL,2014**

**TIME: 2:00P.M. – 5:00P.M.**

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**INSTRUCTIONS**

- Answer **QUESTION ONE** and attempt **ANY OTHER TWO** questions from the following five questions

Question One(30 marks)

- (a) Define the following terms as applied to database (4 marks)
- (b) Trace the three stages in the historical development of data processing 9marks
- (c ) Outline the motivation behind the database approach (5marks)
- (d ) Describe the Basic structure of an SQL expression ( 6 marks)
- (e) Illustrate how you can use QBE to perform logical AND and OR operation 4 marks

Question Two(20 marks)

| Student |         |        |
|---------|---------|--------|
| Code    | Stud.id | Name   |
| DIT     | 001     | atiemo |
| BIT     | 002     | maina  |
| BSC     | 003     | soita  |
| CIT     | 004     | korir  |

| Course |              |
|--------|--------------|
| code   | Title        |
| DIT    | DIPLOMA      |
| BIT    | INFORMATIO N |
| BSC    | COMPUTER     |
| CIT    | CERTIFICATE  |

Use the Student and Course table to perform the following

- (a) Create the two tables is SQL 6 marks
- (b) Query the database to get the detail of student taking Bit 4 marks
- (c) Illustrate how you can modify the database using delete and insert 6 marks

Question Three (20 marks )

- (a) Describe four component of database language 6 marks
- (b) Fill in the required normalisation data in the table below (14marks )

| UNF                  | UNF Level | INF | 2NF | 3NF |
|----------------------|-----------|-----|-----|-----|
| <u>Salesman_no</u>   |           |     |     |     |
| <u>Salesman_name</u> |           |     |     |     |
| <u>Cust No</u>       |           |     |     |     |
| <u>Cust Name</u>     |           |     |     |     |
| <u>Cust Dis Code</u> |           |     |     |     |
| <u>Cust Dis</u>      |           |     |     |     |
| <u>Tot Sales</u>     |           |     |     |     |

Question Four(20 marks)

Describe database Types

Question Five (20 marks)

You have be asked to come up with student database. The database should have three tables (student, course, tutor), forms, queries, report, and macro. Illustrate with aid of examples how this can be done.

