

**MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY**

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**University Examinations 2015/2016**

FIRST YEAR, FIRST SEMESTER EXAMINATION FOR THE CERTIFICATE IN INFORMATION TECHNOLOGY

**CIT 1104: MICROSOFT ACCESS**

**DATE: NOVEMBER 2015 TIME: 11/2 HOURS**

**INSTRUCTIONS:** *Answer question* ***one*** *and any other* ***two*** *questions*

**QUESTION ONE (30 MARKS)**

1. Define the following terms as used in Microsoft Access
2. Data (2 Marks)
3. Database (2 Marks)
4. Database Management System (2 Marks)
5. Database Normalization (2 Marks)
6. Primary Key (2 Marks)
7. i) State and explain **four** main components of Microsoft Access (8 Marks)

ii) Mention any **two** advantages of computerized database (2 Marks)

1. i) Highlight **Three** importance of setting up the Primary Key in a database table (3 Marks)

ii) Give a brief description of the following types of database users;

a) Sophisticated Users (2 Marks)

b)Naive Users (2 Marks)

iii) Explain the main roles played by the Database Administrator in an organization (3 Marks)

**QUESTION TWO (15 MARKS)**

1. State and explain any five applications of databases in business environment today (10 Marks)
2. Mention any **five** disadvantages of the traditional filing system (5 Marks)

**QUESTION THREE (15 MARKS)**

1. Discuss the **three** main Cardinality relationship in Relational Databases (6 Marks)
2. Define the term Data type and give any **five** types that you know in MS Access (6 Marks)
3. Mention any **three** examples of Database Management Systems today (3 Marks)

**QUESTION FOUR (15 MARKS)**

1. Explain **four** main Database Models (8Marks)
2. State and explain **three** types of form views (6 Marks)
3. Define the term Caption as used in Databases (1 Mark)

**QUESTION FIVE (15 MARKS)**

1. In the design of a student database, the following were identified as ideal for the database tables:

Table 1 : Student Details Table 2: Student Finance

: Registration Number : Registration Number

: Name. Tuition Number

: Date of Birth. Caution fee

: Course. Medical fee

: Gender

: Telephone Number

: ID Number

Giving examples from the above; identify the following keys

1. Candidate key (1 Mark)
2. Primary key (1Mark)
3. Alternate key (1Mark)
4. Foreign key (1 Mark)
5. Super key (1 Mark)
6. State and explain any **Five** functions of the Database Management System (10 Marks)