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**W1-2-60-1-6**

**JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY**

# University Examinations 2015/2016

**STAGE V SPECIAL/SUPPLEMENTARY EXAMINATION FOR THE DIPLOMA IN INFORMATION TECHNOLOGY**

# DIT 0504: DATABASE PROGRAMMING

**DATE: APRIL, 2016**  **TIME: 2 HOURS**

**INSTRUCTIONS: Answer Question ONE and Any Other TWO Questions.**

**Question One**

a) Define the following terms. [9 marks]

1. DBMS
2. DDL
3. DML

b) Discuss the role of database administrator. [10 marks]

c) List and explain four major model of databases. [11 marks]

**Question Two**

a) Describe the major phases during development of a database management system.

[10 marks]

b) Describe the advantages of using database management system. [10 marks]

**Question Three**

a) Write syntax for the following commands in SQL. [10 marks]

1. Create database
2. Select
3. Where
4. Update
5. Delete

b) Define the term data type and discuss three major classifications of data types of mySQL. [10 marks]

**Question Four**

a) Describe the forces that has led to growth of outline database application. [10 marks]

b) Differentiate between relational database and logical database model. [10 marks]

**Question Five**

Discuss the major database access methods commonly used in database. [20 marks]