



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND
TECHNOLOGY**

SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS

**UNIVERSITY EXAMINATIONS FOR THE DEGREE OF BACHELORS OF
BUSINESS ADMINISTRATION WITH I.T**

2YEAR, 2ND SEMESTER 2016/17 ACADEMIC YEAR

NAMBALE CAMPUS

COURSE CODE: SCS 212

COURSE UNIT: DATABASE SYSTEMS

EXAM VENUE NAMBALE CAMPUS

DATE: DECEMBER, 2016

TIME: 2 HOURS

Instructions

1. Answer question one (compulsory) and any other two questions
2. Candidates are advised not to write on the question paper
3. Candidates must hand in their answer booklets to the invigilator while in the examinations room

QUESTION#1

- a) Explain the Disadvantage in File Processing System? (12mks)
- b) State and explain any four different type of databases users (8mks)
- c) State any six example of Database Management Systems (3mks)
- d) What is a key? What are different keys in database? (4mks)
- e) Explain what you know about a data directory or data dictionary? (3MKS)

QUESTION#2

- a) Define database and explain what the advantages of database are? (12mks)
- b) Explain the difference between the primary and secondary keys (4mks)
- c) Differentiate between DBA and BBMS. (4mks)

QUESTION#3

- a) Explain what is DBMS and state its functions(6mks)
- b) What is an ERD? Explain with the help of an example (8mks)
- c) With example explain four different type of relationship in database(6mks)

QUESTION#4

- a) State and Explain three types of Normalization (6mks)
- b) Differentiate between entity and attributes (4mks)
- c) Define DML and explain the following (10mks)
 - i. Insert statement
 - ii. Update statement
 - iii. Delete statement
 - iv. Select statement

QUESTION#5

- a) Explain the Disadvantage in File Processing System? (12mks)
- b) Describe the three levels of data abstraction? (6mks)
- c) Explain what is an entity? (2mks)