



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF
INFORMATICS AND INNOVATIVE SYSTEMS
UNIVERSITY EXAMINATION FOR DEGREE OF BACHELOR OF BUSINESS ADMINISTRATION
WITH IT
2ND YEAR 1ST SEMESTER 2016/2017 ACADEMIC YEAR
NAMBALE LEARNING CENTER**

COURSE CODE: SCS 212

COURSE TITLE: DATABASE MANAGEMENT SYSTEM

EXAM VENUE:-- STREAM: (BED ARTS)

DATE:19/12/16 EXAM SESSION: 2.00 – 4.00 PM

TIME : 2.00 HOURS

Instructions:

- 1. Answer Question one (Compulsory) and any 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 examination room.**

QUESTION ONE

A. Outline types of software and explain their roles in the manipulation of data into information

10 marks

B. Define the following terms

- i. Topology
- ii. Network
- iii. Tele-commuting
- iv. Tele-conferencing
- v. Protocol

10 marks

QUESTION TWO

A. Discuss Five components of an Information System

5 marks

B. Define the term ethics and using examples discuss ethical issues that need to be addressed in a hospital set-up 5 marks

C. Outline and discuss four characteristics of a valuable information

10 marks

QUESTION THREE

A. Differentiate the following terms

- i. Central processing unit and computer memories
- ii. Laptops and Tablets
- iii. Megabytes and Gigabytes
- iv. Knowledge base system and management Information system
- v. Application software and system software

10 marks

B. Discuss some emerging trends in Information Technology and their effects in the society

10 marks

QUESTION FOUR

- A. Define the term security in relationship to Information Technology and discuss four security threats to an information system. 10 marks
- B. Using well label diagram discuss FIVE classes of topology that one can implement in a network. 10 marks

QUESTION Five

- A. Discuss the impact of Information Communication Technology on the following disciplines in the society
- i. Education
 - ii. Medical
 - iii. Entertainment
 - iv. Research
 - v. Communication 10 marks
- B. Discuss FIVE emerging trends in Information Technology and their effects in the society 10 marks