



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF HEALTH SCIENCES
UNIVERSITY EXAMINATION FOR **DIPLOMA IN** HEALTH RECORDS**

**2nd Year 1st SEMESTER 2023/2024 ACADEMIC YEAR
MAIN**

COURSE CODE: HDR 2126

COURSE TITLE: HEALTH DATABASE MANAGEMENT SYSTEM

EXAM VENUE:

STREAM: (Dip. HEALTH RECORDS.)

DATE:

EXAM SESSION:

TIME: 3.00 HOURS

Instructions:

Answer ALL questions

SECTION A: (40 MARKS)

Attempt all questions in this section. Choose the correct answer and write it in the answer booklet provided. Marks for each question are indicated in brackets.

1. Which of the following is not an advantage of electronic health records over paper counterpart, select all that **apply** [3Marks)?
 - A. Increase in speed of information exchange and enables users to conduct more research
 - B. Storage is much less than the equivalent number of paper records
 - C. Easy to copy and takes very short time
 - D. Less costly compared to paper counter part
2.
 - a) Outline four advantages of using indexes in structured query language (4 marks)
 - b) With the aid of an example in each case, describe each of the following attributes as used in databases
 - I. Composite (2 marks)
 - II. Derived (2 marks)
3.
 - a) Outline three characteristics of an entity in a database (3 marks)
 - b) Describe each of the following criteria for clarification of database management system
 - i) Based on data models (4 marks)
 - ii) Based on the number of users(4marks)
 - iii) Based database distribution (4marks)
4. The release of protected health information to an outside provider or organization. [1mk]
 - A. Disclosure
 - B. Authorization
 - C. Consent
 - D. informed consent
5. Distinguish between a data administrator and a database administrator (4 marks)

SECTION B: (60 MARKS) EXTENDED (ESSAY) ANSWER QUESTIONS

INSTRUCTION: ANSWER ALL QUESTION

1. Describe each of the following approaches used in the design of a database
a)
 - i. Top down (5 marks)
 - ii. Bottom up (5 marks)
 - b) Explain four types of Database Management System [10mks]
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2. [a] Discuss Five threats to database management system. [10mks]

[b] Nowadays electronic medical records system is widely used in hospitals, nursing facilities and healthcare. Discuss FIVE advantages of EMR. [10mks]
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3. Adopting ICT in data management system present special challenges
 - a. Discuss five of these challenges facing ICT adoption in health records management[10mks]
 - b. Discuss five disadvantages of ICT application in health records and information management[10mks]