



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF HEALTH OF SCIENCES

UNIVERSITY EXAMINATION FOR MANAGEMENT OF ELECTRONIC HEALTH I

YEAR 2 SEMESTER 1 ACADEMIC YEAR 2024/2025 MAIN CAMPUS

COURSE CODE: HDR 2216

DATE:

**COURSE TITLE: MANAGEMENT OF
ELECTRONIC HEALTH I**

TIME: 3 HOURS

EXAM VENUE:

**STREAM: DIP. HEALTH RECORDS &
IT**

EXAM SESSION: SEP-DEC 2024

Instructions

- i. Answer **ALL** question in **Section A** and any other three questions in **Section B**.
- ii. Candidates are advised not to write on the question paper.
- iii. Candidates must hand in their answer booklets to the investigator while in the examination room

SECTION A: (40 MARKS)

Answer ALL questions in this Section.

QUESTION ONE

- a) Define the following terms
- i. Electronic patient booking (2 Marks)
 - ii. Retrieval (2 Marks)
 - iii. Appointment (2 Marks)
 - iv. Health agent data (2 Marks)
 - v. Disease surveillance (2 Marks)
- b) Mention **FIVE** challenges of adopting electronic patient management systems (5 Marks)
- c) State **FIVE** components of a quality health record report (5 Marks)
- d) State **TWO** uses of mobile phones provided to Community Health Promoters (2 Marks)
- e) Using the knowledge acquired in E-health:
- a) Define electronic health record. (2 Marks)
 - b) List **THREE** data elements that should be included in a health record captured electronically (3 Marks)
 - c) Give **THREE** security measures for electronic health system that will ensure safe storage and sharing of health records. (3 Marks)
 - f) Outline **THREE** storage devices that can be used to store data electronically. (3 Marks)
- g) JOOUST Medical facility prefers online booking to manual booking. State **FOUR** advantages of online booking in a hospital. (4 Marks)
- h) eCHIS is the current trend in collection and management of health data from level 1 health service delivery. List **THREE** operational features of eCHIS (3 Marks)

SECTION B: (60 MARKS)

Answer any THREE questions in this section.

QUESTION TWO

Health agent data is often used for personal health tracking, medical research or to provide information health care providers for diagnosis and treatment. Discuss presentation and dissemination of health agent data. (20 Marks)

QUESTION THREE

- a) With aid of examples, define electronic patient management system. (4 Marks)

- b) Discuss importance of electronic patient management system (6 Marks)
- c) Discuss features of electronic patient management system (10 Marks)

QUESTION FOUR

- a) State methods of data collection (4 Marks)
- b) Explain future trends in report generation and intervention (8 Marks)
- c) As a Health Records and Information Officer, discuss challenges faced in health records management (8 Marks)

QUESTION FIVE

As a health records professional, compare and contrast electronic health systems and manual systems (20 Marks)

QUESTION SIX

- a) Disease surveillance answers epidemiological questions "Who, When, Where, and How?" Discuss sources of disease surveillance (10 Marks)
- b) Discuss the process of disease surveillance (10 Marks)