

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF
SCIENCE IN HEALTH RECORDS AND INFORMATION MANAGEMENT**

**HRIM 171: COMPUTER APPLICATION FOR HEALTH INFORMATION
MANAGEMENT I**

STREAMS: BSC. HRIM

TIME: 2 HOURS

DAY/DATE: MONDAY 14/04/2025

2.30 P.M. – 4.30 P.M.

INSTRUCTIONS

Attempt ALL QUESTIONS IN SECTION ONE and TWO QUESTIONS IN SECTION TWO WHERE QUESTION ONE IS MANDATORY

SECTION A: 40 MARKS

- 1) Define the following concepts (5 marks)
 - I. Interoperability
 - II. Backup system.
 - III. Electronic Health Records
 - IV. Telehealth
 - V. Cyber security
- 2) Outline five types of data captured during patient registration in a computer system? (5 marks)
- 3). State the five roles of interoperability in patient registration systems. (5 marks)
- 4) List five classifications systems of computer systems (5 marks)
- 5) State five applications of computers in Health Information management (5 marks)
- 6) Outline five uses of health information in health care delivery (5 marks)
- 7) State five technologies supporting health care data management (5 marks)
- 8) Outline five challenges in health care data management (5 marks)

SECTION B: 30 MARKS

9 a. Explain five role of Electronic Health Records (EHRs) in patient registration (5 marks)

b. Discuss the importance of data security and privacy in patient registration systems, and explain how healthcare organizations can ensure compliance with regulations like Digital data protection Act. (10 marks)

10). a) Discuss the benefits, challenges, and potential future developments of Electronic Health Records (EHRs) in modern health care data management. (10 marks)

b. Outline the role of telemedicine in modern health care and its impact on data management. (5 marks)

11) a. Discuss the impact of Artificial Intelligence (AI) and Big Data Analytics in health care data management in reference to patient outcomes and operational efficiency (10 marks)

b. Explain the concept of Health Information Exchange (HIE) and its significance in health care data management. (5 marks)

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