



**AMREF INTERNATIONAL UNIVERSITY**  
**SCHOOL OF PUBLIC HEALTH**  
**DEPARTMENT OF HEALTH SYSTEMS MANAGEMENT AND DEVELOPMENT**  
**MASTER OF SCIENCE IN BIOETHICS / MASTER OF SCIENCE IN HEALTH**  
**SYSTEMS MANAGEMENT/ MASTER OF SCIENCE IN HEALTH PROFESSIONS**  
**EDUCATION**  
**END OF SEMESTER EXAMINATION MAY-AUGUST 2024**  
**MAIN EXAM**

**UNIT CODE: HSM 721    UNIT NAME: Fundamentals of Health Information Management**  
**DATE: XX August, 2024**  
**TIME: Three Hours    Start: 4:00 PM    Finish 7: 00 PM**

**INSTRUCTIONS**

1. This exam is marked out of 100 marks
2. This Examination comprises TWO Sections  
**Section A:** Compulsory Question (25 marks)  
**Section B:** Long Answer Questions (75 marks)

**SECTION A: COMPULSORY (25 Marks)**

**Short Answer Questions**

1. Explain the pervasive role of information in health Systems Management (5-marks)
2. Discuss the outcomes of a stronger health information System (5-marks)
3. Explain the linkages between routine health Information Systems investment and health system performance (5-marks)
4. Explain the importance of health information life cycle in determining data quality (5-marks)

5.

## **SECTION B (Set 5 Questions)**

### **ANSWER ANY THREE (3) QUESTIONS (75 Marks)**

#### **Long Answer Questions**

1. As part of the hospital management committee, you have client satisfaction survey report. In the report, patients are complaining of long waiting time for services, patient flow is full of back and forth process amongst others. The committee has asked you to investigate and recommend how this situation can be improved.
  - a. Discuss the approach that you would use to conduct the above investigation (10-marks)
  - b. Discuss the recommendations that you may present to the committee (5-marks)
  - c. Outline the steps that one can use to conduct systems requirement analysis for the development of health information system (10)
2. As health systems' manager you have noticed that the patients' data in the hospital are captured from different disparate systems, causing errors and too much redundancy. Updating one record of the patient requires all the related sources to be updated manually.
  - a. Discuss the causes of the erratic redundant records in a health information system (10-marks)
  - b. Discuss how information technology can be used to increase the efficiency of patient data management in healthcare (15-marks)
3.
  - a) Explain the effect of emerging technologies in healthcare delivery (5-marks)
  - b) One of the emerging technologies that can be used to transform healthcare delivery is the application of telemedicine in healthcare. Discuss how telemedicine can be used to solve healthcare access challenges (10-marks)
  - c) Discuss factors that influence adoption of Health Information Technology in healthcare (10-marks)
4. Community Based Health Information System (CBHIS) is critical for the achievement of universal health coverage. Explain how the CBHIS Model works to support achievement of universal health coverage (25-marks)
5. Discuss the determinants of data demand and information use (25-marks)