



AMREF INTERNATIONAL UNIVERSITY
SCHOOL OF PUBLIC HEALTH
DEPARTMENT OF HEALTH SYSTEMS MANAGEMENT AND DEVELOPMENT
MASTER OF SCIENCE IN HEALTH SYSTEMS MANAGEMENT
END OF SEMESTER EXAMINATION SEPTEMBER-DECEMBER 2024

UNIT CODE: HSM 721

UNIT NAME: HEALTH INFORMATION AND MANAGEMENT

DATE: December 2024

TIME: Three Hours

Start: 5:30 PM

Finish: 8:30 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 components of health information system (5-marks)
2. State the importance of developing essential data sets in healthcare (5-marks)
3. Sketch/illustrate the knowledge pyramid (5-marks)
4. Outline information system development life cycle (5-marks)
5. Describe five users of health information system (5-marks)

SECTION B: ANSWER ANY THREE (3) QUESTIONS (75 Marks)

6. Akala County in Kenya decided to convert its paper-based health information to an electronic health information system. Before the conversion, the Akala County staffs were buried. They hoped that the implementation of an electronic system would improve efficiency by automatic the tedious tasks of filing and retrieving paper records. They also

hoped that the new system would reduce stress levels, improve job satisfaction, make communication and planning easier, and promote quality of healthcare services.

- a. As a member of County Health Management team, explain the role that you would play in the implementation of the electronic health information system (10-marks)
 - b. Discuss factors that may lead to successful implementation of the electronic health information system in Akala County (15-marks)
7. Discuss **ways in which** an effective health management information system (HMIS) may strengthen health systems management (25-marks)
 8. Discuss **ways in which** health information portability and accountability Act (HIPAA) has influenced access and use of health information (25-marks)
 9. Discuss the role of digital health towards achievement of universal health coverage (25-marks)
 10. Discuss **five** health system barriers that can be resolved using emerging technologies (25-marks)