



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 2025

**UNIT CODE: HSM 721 UNIT NAME: HEALTH INFORMATION AND
MANAGEMENT SYSTEMS**

MAIN EXAM

DATE: December 2025

TIME: Three Hours

Start: 5.30pm

Finish 8.30

INSTRUCTIONS

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

SECTION A:

Answer all questions in this section. Each question carries 5 marks.

- a) Define the following terms: Health System (HS) (1 marks)
 - b) Data (1 marks)
 - c) Information (1 marks)
 - d) Health Management Information System (HMIS) (1marks)
 - e) Data source (1 marks)
2. List five methods of data collection used in health information systems. (5 marks)
 3. Describe five reasons why data analysis is essential in health management decision-making. (5 marks)
 4. Describe five key components of a facility-based health management information system (HMIS). (5 marks)

5. Explain three ethical and two legal issues related to health information management. (5 marks)

SECTION B

Answer three questions from this section. Each question carries 25 marks.

1. Discuss five major stages in the Information Systems Lifecycle (25 marks).
2. Explain the process of designing data collection instruments for a hospital-based health information system. (25 marks)
3. Describe the evolution of the Health Management Information System (HMIS) in Kenya (25 marks).
4. Discuss the operational deficiencies of existing HMIS in Kenya (25 marks).
5. Evaluate the importance of data management in strengthening healthcare service delivery. (25 marks).

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