



AMREF INTERNATIONAL UNIVERSITY
SCHOOL OF PUBLIC HEALTH
DEPARTMENT OF HEALTH SYSTEMS MANAGEMENT AND DEVELOPMENT
BACHELOR OF SCIENCE IN HEALTH SYSTEMS MANAGEMENT AND
DEVELOPMENT
END OF SEMESTER EXAMINATION JANUARY-APRIL 2026

MAIN EXAM

HMD 235 HEALTH MANAGEMENT INFORMATION SYSTEMS (HMIS)

TIME: Two Hours
Date : 15th April 2026
TIME : Two (2) Hours Start—5:00PM-----End...7:00PM...

INSTRUCTIONS TO CANDIDATES

- 1) This exam is out of 70 marks
- 2) Section-A is compulsory with a Total of 30 Marks
- 3) Answer any TWO (2) questions in Section B

Read carefully the additional instructions preceding each section.

SECTION A: Answer All Questions

1. Using appropriate examples in healthcare, define the terms
 - a) Data. (3 marks)
 - b) Information. (3 marks)
2. Define a health management information system (HMIS).(4 marks)
3. Highlight **two** policies and / or laws that provide the legal framework for the management of data and information in Kenya.(4 marks)
4. Outline **four** ways in which health information systems support healthcare in Kenya.(4 marks)
5. Highlight the **five** key elements of a HMIS.(5 marks)
6. List **four** benefits of using electronic health records (EHR) systems in managing patients / clients' data in health facilities.(4 marks)
7. Outline **three** benefits of integrating health facility and community information in planning for health services.(3 marks)

SECTION B: Answer Any Two (2) Questions

The HMIS in Kenya may be broadly categorized into 2 parts i.e. institutional based and population base.

7. a). Highlight **two** components in each of the HMIS in Kenya.(10 marks)
- b). With appropriate examples, outline **five** sources of data in the Kenyan health system. (10 marks)
- 8 a). Discuss **five** elements of data quality.(10 marks)
- b). Outline **five** characteristics of a good information system.(10 marks)
9. The health sector in Kenya utilizes data and information for planning and resource allocation.
 - a). Discuss **four** challenges that are encountered in the management of health data and information.(10 marks)

b). Highlight **four** strategies that can be utilized to address the challenges outlined in 9(a) above.(10 marks)

AMMU