



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 FIRST SEMESTER EXAMINATION JANUARY-APRIL 2026

HMD 423: GLOBAL HEALTH AND INNOVATIONS

DATE: 7th 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: Attempt ALL QUESTIONS in this section (30mks)

1. Give three (3) reasons for measuring health status of populations in the management of global health systems (3mks)
2. Explain two (2) differences between telemedicine and telehealth (4mks)
3. State the four (4) diseases that require notification in all circumstances under the International Health Regulations of 2005 (4mks)
4. List four (4) current themes in global health that are attracting international concern (4mks)
5. Outline five (5) requirements for the implementation of the World Health Organization's (WHO) International Health Regulations (IHR) of 2005 (5mks)
6. Name five (5) achievements of donor funding in global health (5mks)
7. Highlight five (5) uses of data from the global burden of disease (5mks)

SECTION B: Answer ANY TWO questions in this section (40mks)

8. Dahlgren and Whitehead's model of 1991, illuminates the complex interactions that results to disease occurrence in human beings. Using relevant examples, describe this relationship focusing on the five (5) broad categories of the key determinants of health in the world as illustrated in this model (20mks)
9. Globalization and advances in technology have revolutionalized service delivery in the healthcare industry globally with evidence of significant impact on patient care. In the view of this statement and using appropriate examples;
- a) Describe any five (5) innovations that can be applied in the fight against communicable diseases in the world today (10mks)
 - b) Explain five (5) challenges of technological applications in health service delivery (10mks)
10. Global public health surveillance processes and disseminates timely data on specific health outcomes to responsible public health authorities for prevention and control. With reference to this statement and appropriate examples;
- a) Discuss four (4) types of public health surveillance systems to monitor diseases and conditions of global health concern (12mks)
 - b) Explain four (4) sources of data for public health surveillance in global health (8mks)