



**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 SECOND SEMESTER EXAMINATION MAY-AUGUST 2024**

**HMD 323: INTEGRATED DISEASE SURVEILLANCE AND RESPONSE**

**DATE :** Tuesday 13<sup>th</sup> August 2024

**TIME :** Two (2) Hours Start---9:00AM End11:00AM

**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 (30 MARKS)**

1. Define the following terms (4 marks)
  - a) Disease surveillance
  - b) Disease outbreak
2. Outline two major types of disease surveillance (6 marks)
3. Outline five reasons why disease surveillance is important in Public Health (5 marks)
4. Highlight any five challenges faced in disease surveillance (5 marks)
5. Outline any five strategies that can be used to conduct disease surveillance (5 marks)
6. List any five types of information that are collected by surveillance systems (5 marks)

**SECTION B: ANSWER ANY TWO QUESTIONS (40 MARKS)**

7. Discuss the ten steps to be undertaken while investigating a disease outbreak. (20 marks)
8. The International Health Regulations (IHR) 2005 are a legally binding agreement of 196 countries to build the capability to detect and report potential public health emergencies worldwide. Discuss the four key things all countries are required to do under these regulations. (20 marks)
9. Surveillance systems generate specific data on diseases and geographic areas and help in guiding public health policy and strategies. Discuss five key functions of an effective surveillance system. (20 marks)