



**AMREF INTERNATIONAL UNIVERSITY**  
**SCHOOL OF PUBLIC HEALTH**  
**DEPARTMENT OF COMMUNITY HEALTH**  
**DIPLOMA IN COMMUNITY HEALTH**  
**END OF JANUARY-APRIL SEMSTER 2025 EXAMINATION**

**UNIT CODE: DCHP 127    UNIT NAME: DISEASE SURVEILLANCE**

**DATE:            8<sup>th</sup> April 2025**

**TIME:            Two Hours**

**Start: 9.00am**

**Finish 11.00am**

**INSTRUCTIONS**

1. This exam is marked out of 60 marks.
2. This Examination comprises TWO Sections.  
Section A: Compulsory Question (20 marks)  
Section B: Long Answer Questions (40 marks)

**SECTION A: Short answers Questions (20 marks), Answer all questions below**

1. Define disease surveillance (*1 Marks*)
2. State with examples the difference between active and passive disease surveillance(*5Marks*)
3. List any TWO (2) factors affecting disease surveillance
4. List four key categories of data collected in disease surveillance (*4 Marks*)
5. Outline any FOUR (4) challenges encountered in data collection for disease surveillance. (*4 Marks*)
6. State any FOUR (4) health requirements that international travelers must fulfill to prevent the spread of diseases. (*4 Marks*)

**SECTION B: Long Answer Questions (40 marks), Answer any two of the questions below**

7. Disease surveillance is important in public health.
  - a) Describe the significance of disease surveillance in public health. (*5 Marks*)

- b) Outline the key functions of a disease surveillance system and its contributions to public health (5 marks)
- c) State Five(5) classifications of disease surveillance systems. (5 Marks).
- d) Explain the role of digital technology in enhancing disease surveillance, particularly during the COVID-19 pandemic. (5 Marks)
8. Data collection and Population Migration plays a crucial role in disease surveillance.
- Describe Two (2) methods used to collect data in disease surveillance and provide examples. (4 Marks)
  - Describe the process of data collection and analysis in disease surveillance (6 Marks)
  - Discuss any THREE (3) types of migration that affect disease patterns ( 6)
  - State any FOUR (4) essential vaccinations for travelers crucial for preventing illnesses during travel (4 Marks)
9. Herd Immunity and Community involvement is essential in Public Health
- Explain the importance of community involvement in effective disease surveillance. (6 Marks)
  - Describe the Five ( 5) strategies to strengthen disease surveillance in low-resource settings. (5 Marks)
  - Discuss any Five(5) benefits of Herd Immunity (5 Marks)
  - Describe TWO (2) factors that contribute to the development of herd immunity (5 Marks)