



**AMREF INTERNATIONAL UNIVERSITY**  
**SCHOOL OF PUBLIC HEALTH**  
**DEPARTMENT OF COMMUNITY HEALTH**  
**MASTER OF PUBLIC HEALTH**  
**END OF SEMESTER EXAMINATION DECEMBER 2024**

**MPH 718:** PUBLIC HEALTH SURVEILLANCE.  
**DATE:** WEDNESDAY 18<sup>TH</sup> DECEMBER 2024  
**TIME:** THREE HOURS      **START:** 5.00PM      **FINISH:** 8.00PM

**Instructions**

1. This exam is marked out of 100 marks
2. This Examination comprises TWO Sections  
    **Section A:** Compulsory Question (25 Marks)  
    **Section B:** Long Answer Questions (70 Marks)
3. The question on Section A is compulsory and Answer any THREE questions in Section B
4. This online exam shall take 3 Hours
5. Late submission of the answers will not be accepted
6. Ensure your web-camera is on at all times during the examination period
7. No movement is allowed during the examination
8. Idling of your machine for 5 min or more will lead to lock out from the exam
9. The Learning Management System (LMS) has inbuilt integrity checks to detect cheating
10. Any aspect of cheating detected during and or after the exam administration will lead to disciplinary measures.
11. In case you have any questions call the invigilator on Dr. Nicholas Ngomi Njau +254721440462 or Head of Department Dr. Faith Muhonja on Tel +254 723 742 370 or ICT related questions Mr. Patrick Njine on +254725835496
12. For adverse incidences please write an email to: [amiu.examinations@amref.ac.ke](mailto:amiu.examinations@amref.ac.ke)

## **SECTION A: COMPULSORY (25 MARKS)**

### **QUESTION ONE**

- a) Illustrate four levels of disease prevention (4 Marks).
- b) Describe five elements of an effective disease surveillance system (5 marks).
- c) Differentiate between passive active disease and integrated surveillance systems (6 Marks)
- d) Outline Five sources for public health surveillance data (5 Marks)
- e) Illustrate five triggers to a potential disease outbreak (5Marks)

## **SECTION B: ANSWER ANY THREE (3) QUESTIONS (75 MARKS)**

### **QUESTION TWO**

- i. Illustrate the support functions of disease surveillance systems (5 Marks)
- ii. Discuss the process of setting up a public health surveillance system in your country (20 marks).

### **QUESTION THREE**

- i. Illustrate the core functions of Integrated Disease surveillance and response (IDSR) (10 Marks)
- ii. Discuss the challenges for implementation of Integrated Disease surveillance and response (IDSR) in Africa (15 marks).

### **QUESTION FOUR**

- i. Outline the importance evaluating the public health surveillance and response systems (10 marks).
- ii. Discuss ten key attributes considered while monitoring and evaluating the public health surveillance and response systems (15 marks).

### **QUESTION FIVE**

Discuss with relevant examples the systematic steps followed involved in outbreak investigation (25 Marks)

### **QUESTION SIX**

The key strategy for implementing public health surveillance in the African countries is the Integrated Disease Surveillance and Response (IDSR) strategy, which was launched by WHO Afro in 1998.

- a) Illustrate the reporting requirement in your country (5 Marks).
- b) Discuss the reportable diseases in your country (10 Marks).
- c) Explain the methods used by your country's health departments to disseminate surveillance information to relevant authorities (10 Marks)

**END**