



**AMREF INTERNATIONAL UNIVERSITY**  
**SCHOOL OF PUBLIC HEALTH**  
**DEPARTMENT OF COMMUNITY HEALTH**  
**MASTER OF PUBLIC HEALTH**  
**END OF SEMESTER EXAMINATION APRIL 2023**

**MAP 718:** PUBLIC HEALTH SURVEILLANCE.  
**DATE:** 21<sup>ST</sup> APRIL 2023.  
**TIME:** THREE HOURS      **START:** 4PM      **FINISH:** 7 PM

**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 (75 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 nullification of your exam
11. In case you have any questions call the invigilator on +254721440462 or Head of Department on Tel +254720573449
12. For adverse incidences please write an email to: [amiu.examinations@amref.ac.ke](mailto:amiu.examinations@amref.ac.ke)

## SECTION A: COMPULSORY QUESTION (25 MARKS)

### QUESTION ONE

- a) Differentiate between passive and active disease surveillance systems (**5 Marks**)
- b) Outline **Five** sources for public health surveillance data (**5 Marks**)
- c) List **five** support functions of disease surveillance systems (**5 Marks**)
- d) Describe the diseases surveillance reporting structure in your country (**5Marks**).
- e) Illustrate **five** methods used to disseminate surveillance information to relevant authorities (**5Marks**)

## SECTION B: ANSWER ANY THREE QUESTIONS IN THIS SECTION (75 MARKS)

### QUESTION TWO

- i. Illustrate FIVE elements of an effective disease surveillance system (**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

Discuss **ten** key attributes considered while evaluating the public health surveillance and response systems (**25 marks**).

### QUESTION FIVE

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