



AMREF INTERNATIONAL UNIVERSITY
SCHOOL OF PUBLIC HEALTH
DEPARTMENT OF COMMUNITY HEALTH
MASTERS IN PUBLIC HEALTH
END OF SEPTEMBER-DECEMBER TRIMESTER 2022 EXAMINATIONS

MAP 718: Public Health Surveillance.
DATE: 13th December 2022
TIME: Three **Start:** 4.00 PM **Finish:** 7.00 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

SECTION A: COMPULSORY QUESTION

QUESTION ONE

- a) Describe **Five** key elements of an ideal public health surveillance system **(5 Marks)**
- b) Outline **Five** data sources for public health surveillance **(5 Marks)**
- c) List **Five** core functions of Integrated Disease Surveillance and Response (IDSR) **(5 Marks)**
- d) Describe the **Ten** steps involved in outbreak investigation **(5 Marks)**
- e) Describe **five** challenges and barriers to effective disease surveillance reporting **(5 Marks)**

SECTION B: Answer Any Three (3) Questions

QUESTION TWO

Discuss **twelve** key elements considered by a disease surveillance coordinator while setting up an effective surveillance system in your country **(25 marks)**.

QUESTION THREE

Every surveillance system should be evaluated periodically to ensure that it is serving a useful public health function and is meeting its objectives. Discuss **ten** key attributes considered while evaluating the public health surveillance and response systems **(25 marks)**.

QUESTION FOUR

Discuss with relevant examples the application, advantages and disadvantages of the following surveillance systems:

- a) Passive surveillance system **(9 Marks)**.
- b) Active surveillance system **(9 Marks)**.
- c) Syndromic surveillance system **(7 Marks)**.

QUESTION FIVE

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)**

QUESTION SIX

In order to have an effective disease surveillance system, it is important that public health authorities recognize the challenges and barriers to reporting, since many are within the authorities' power to address or correct.

- a) Discuss the challenges and barriers to reporting in developing countries **(15 Marks)**
- b) Illustrate strategies to improve reporting in developing countries **(10 Marks)**

AMU