



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

UNIT CODE: DCHP 217

UNIT NAME: DISEASE SURVEILLANCE

DATE : 29th November 2022

TIME : Two (2) Hours

Start: 2.00 PM Stop: 4.00 PM

Instructions

- 1) This paper has Section A and B
- 2) Answer **ALL** questions in Section A
- 3) For Section B, answer any two (2) questions of your choice.
- 4) Use the university examination booklets provided. Do Not write anything on the question paper
-use the back of your booklet for rough work if need be
- 5) Write your student registration number on all your answer sheets

SECTION A: SHORT ANSWER QUESTIONS (20 Marks)

1. Define the following terms as used in disease surveillance: (6 Marks)
 - a) Surveillance
 - b) Epidemic
 - c) Quarantine
2. Outline why herd immunity is important in the context of disease surveillance (3 Marks)
3. Differentiate between a sporadic and pandemic diseases. (4 Marks)
4. Outline FOUR characteristics of a good surveillance system (4 Marks)
5. Highlight **THREE** types of data obtained in surveillance (3 Marks)

SECTION B: LONG ANSWER QUESTIONS: (40 Marks)

6. Ebola Cases has been reported in a neighboring country and as the Chief Disease Surveillance Officer, your task is to carry out continuous surveillance across the border. Explain five importance of surveillance specifically in this context. (20 Marks)
7. South Sudan and specifically Juba has experienced cases of unknown disease for the past one year. You have been posted as the disease surveillance officer specifically to track the disease and determine to what extent it has affected the population. Describe five sources of data that you will use to better understand the disease in this context. (20 Marks)
8.
 - a. Using relevant examples, describe the three types of disease surveillance systems (12 Marks)
 - b. Highlight three Quantitative and three qualitative Data Collection Methods used in disease surveillance (6 Marks)
 - c. Identify TWO software's that can be used in quantitative data analysis A (2 Marks)