



AMREF INTERNATIONAL UNIVERSITY

Qualification Code : 102105T4COH
Qualification : Community Health Level 5
Unit Code : HE/OS/CH/CC/02/5/A
Unit of Competency : Apply Epidemiology in Community Health

WRITTEN ASSESSMENT

TIME: 3 HOURS

INSTRUCTIONS TO CANDIDATE

1. Marks for each question are indicated in the brackets.
2. The paper consists of **TWO** sections: **A** and **B**.
3. Candidates are provided with a separate answer booklet
4. **DO NOT** write on this question paper.

*This paper consists of THREE (3) printed pages
Candidates should check the question paper to ascertain that all pages are
printed as indicated and that no questions are missing.*

SECTION A: (40 Marks)

Answer All Questions in This Section

1. Differentiate between Endemic and epidemic diseases. (4 Mark)
2. As a community health assistant state **FOUR** benefits of having knowledge of epidemiology in community health practice. (4 Marks)
3. Identify **THREE** sources of data used in epidemiological studies. (3 Marks)
4. Outline **FOUR** stages of the natural history of a disease. (4 Marks)
5. Identify **FIVE** qualities of indicators of epidemiological data. (5 Marks)
6. Mention **FIVE** transmission routes of communicable diseases in your community. (5 Marks)
7. One of the roles of a community health worker is to sensitize community members to prevent diseases. State **FIVE** health intervention used to control and prevent the spread of diseases. (5 Marks)
8. Enumerate **THREE** aims of population screening programs in your community. (3 Marks)
9. Mention **FOUR** strategies a community health assistant can use to minimize errors during data collection. (4 Marks)
10. In Kenya, community-based disease surveillance remains active via community health volunteers. State **FOUR** steps involved in surveillance. (4 Marks)

SECTION B: (60 MARKS)

Answer THREE questions in this section.

Question 11 is COMPULSORY

11. A study conducted in community X in 2007 reported an outbreak of Measles. Measles was diagnosed in 18 of 152 vaccinated children compared to 3 of 57 unvaccinated children.
- a) Differentiate between odd ratio and risk ratio. (4 Marks)
 - b) Draw a clear 2 by 2 matrix table filling in the data provided above. (6 Marks)
 - c) Calculate the risk ratio and odd ratio using the data provided, stating clearly the formula used in each. (10 Marks)
12. Epidemics can be classified according to the method of spread or propagation, nature and length of exposure to the infectious agent, and duration.
- a) Explain **THREE** types of epidemics. (6 Marks)
 - b) Describe **SEVEN** steps involved in investigation of an epidemic. (14 Marks)
13. As a community health worker, you have been tasked with the responsibility of planning and developing for population screening in your community.
- a) Explain **FIVE** methods of obtaining data from the community during the screening process. (10 Marks)
 - b) Describe **FIVE** factors considered before undertaking community screening. (10 Marks)
14. In one of the field excursion with a community health officer. You are requested as a student to perform health education on the following topics at a public Barraza.
- a) Define the term disease surveillance. (2 Marks)
 - b) Explain **THREE** objectives of disease surveillance to the community. (6 Marks)
 - c) Describe **SIX** steps involved in planning disease surveillance system. (12 Marks)