102106T4COH

COMMUNITY HEALTH LEVEL 6

HE/OS/CH/CC/03/6/A

Apply Epidemiology in Community Health

July /Aug 2023

TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION COUNCIL (TVET CDACC)

WRITTEN ASSESSMENT

TIME: 3 HOURS

INSTRUCTIONS TO CANDIDATES

1. This paper has two sections **A** and **B**
2. You are provided with a separate answer booklet.
3. Marks for each question are as indicated.
4. Do not write on the question paper

This paper consists of 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 the questions in this section

1. You have been appointed to conduct a disease surveillance exercise at Majaoni community. Identify THREE reporting tools you will use to carry out the surveillance.   (3 Marks)

2. Highlight FOUR probability sampling techniques.   (4 Marks)

3. Research involves searching for new knowledge and trying to come up with solutions to identified problems. Differentiate between quantitative and qualitative research.   (4 Marks)

4. 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)

5. Outline FOUR modes of transmission of infectious disease agents.   (4 Marks)

6. Any notifiable disease suspected or confirmed shall be reported to the relevant authority immediately according to the disease notification protocols. List FIVE notifiable diseases in Kenya.   (5 Marks)

7. Differentiate between Active and Sentinel types of surveillance.   (4 Marks)

8. State FIVE forums in which epidemiological reports can be disseminated.   (5 Marks)

9. During the planning process a researcher should decide on the appropriate method of data collection to be used. Mention FOUR methods of data collection.   (4 Marks)

10. Differentiate between Endemic and epidemic diseases.   (4 Marks)

SECTION B: (60 MARKS)

Answer any three questions in this section

11. Disease progression process begins with exposure to or accumulation of risk factors capable of causing disease in a susceptible host.

    a) State TWO criteria used to identify notifiable diseases. (2 Marks)

    b) Explain SIX phases of disease progression according to the natural history of diseases.

    (18 Marks)

12. An epidemiologist currently working in Coastal Counties has been authorized to conduct disease screening on the suspected cases of Corona virus that is currently happening in the region.

    a) Explain FOUR factors to consider when planning for disease screening exercise.

    (12 Marks)

    b) Describe FOUR categories of biological agents that cause diseases. (8 Marks)

13. According to the WHO, community diagnosis is a quantitative and qualitative description of the health of citizens and factors influencing their health. It also identifies problems and stimulates action.

    a) Mention FOUR health needs you may encounter when conducting community diagnosis. (4 Marks)

    b) Describe FOUR stages of conducting community diagnosis. (16 Marks)

14. Carrying out disease surveillance involves several steps that require investigation and reporting of a disease outbreak.

    a) Define the term "disease surveillance". (2 Marks)

    b) Describe TEN steps involved in disease outbreak investigation. (10 Marks)

    c) Explain FOUR steps used in planning disease surveillance system. (8 Marks)

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