

102106T4COH

COMMUNITY HEALTH LEVEL 6

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

APPLY EPIDEMIOLOGY IN COMMUNITY HEALTH

July/August 2024



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

WRITTEN ASSESSMENT

TIME: 3 HOURS

INSTRUCTIONS TO CANDIDATE

1. This paper consists of two sections; **A** and **B**
2. Answer **ALL** the questions as guided in each section
3. Marks for each question are as indicated in the brackets
4. You are provided with a separate answer booklet to answer the questions
5. Do not write in this question paper

This paper consists of FIVE (5) 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. Distinguish between epidemic and endemic as applied in epidemiology. [2 Marks]
2. Community health needs assessment plays a vital role in improving the overall health status of a community. Highlight FOUR classes of health needs. [4 Marks]
3. Formulating and testing hypothesis is done before collecting and analyzing of the actual epidemiological data. Highlight FOUR characteristics of a practical hypothesis. [4 Marks]
4. Epidemiological research process helps to identify the most pressing community health needs. By giving an example, outline THREE criteria used to identify epidemiological research. [3 Marks]
5. The data below shows the blood sugar levels of five elderly females aged between 60 – 80-year-old from village X.

Name	Blood sugar level (mmol/L)
Pink	11
Green	9
Red	1
Yellow	16
Black	8

- Find the population variance of the blood sugar levels of the five ladies. [4 Marks]
6. You have just concluded conducting population screening in community X. Outline FOUR platforms that you will use to disseminate the population screening report. [4 Marks]
 7. It has been reported to you that 9 out of 36 youths who attended their friend's birthday party presented cholera like symptoms.
 - a) Identify the epidemiological research study design you are going to use to describe the distribution and occurrence of the disease. [1 Marks]
 - b) Outline THREE applications of the study design mentioned in part (a) above in epidemiological research. [3 Marks]