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COMMUNITY HEALTH LEVEL 5

HE/OS/CH/CC/02/5

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Apply Epidemiology in Community Health

July/August 2025

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

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WRITTEN ASSESSMENT

Time: 3 HOURS

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INSTRUCTIONS TO CANDIDATE

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1. This paper consists of TWO sections: A and B.

2. Attempt **ALL** questions in section A.

3. Attempt **any THREE** questions in section B.

4. Marks for each question are indicated in the brackets.

5. Candidates are provided with a separate answer booklet.

6. Do not write on the question paper.

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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)

Attempt all the questions in this section

1. Name FOUR secondary sources of data. (4 Marks)
2. Disease can progress in stages in the absence of treatment. List the first FOUR stages. (4 Marks)
3. Record THREE roles of a community health assistant in the prevention and control of communicable diseases. (3 Marks)
4. Epidemiologists use the model of a triangle with three components to understand how diseases are transmitted. Identify the THREE components. (3 Marks)
5. Underline FOUR reasons why a case of Ebola will be immediately notified to the public health department for prompt action. (4 Marks)
6. Record FOUR contributions of information communication technology in epidemiology. (4 Marks)
7. Name FOUR factors exposing your community to diseases. (4 Marks)
8. State THREE reasons why Epidemiologists should use active surveillance for investigating the increasing rate of respiratory infections in your community. (3 Marks)
9. A community members asked you the routes that pathogens can use to gain entry into the human body. Record FOUR routes. (4 Marks)
10. Identify FOUR non-probability sampling methods that Epidemiologists can use during qualitative studies to get in-depth information. (4 Marks)
11. Suggest THREE population parameters you can use to present numerical data from a sample population. (3 Marks)

SECTION B (60 MARKS)

Attempt question any THREE questions in this Section

12. Understanding the factors in communicable disease transmission cycle enable epidemiologists come up with disease prevention and control measures.

a) Describe FIVE measures that can be applied to attack the reservoir. (10 Marks)

b) Explain FIVE measures applied to protect the susceptible host. (10 Marks)

13. You have been tasked to conduct community diagnosis to identify the unmet needs of the community.

a) Describe SIX steps you can use to accomplish the task. (12 Marks)

b) Examine FOUR methods you can use to disseminate findings of the exercise. (8 marks)

14. Epidemiology department received a notification from one of the community health promoters that six community members are presenting with similar symptoms suspected to be of Cholera.

a) Explain SEVEN steps they can take to investigate the outbreak. (14 Marks)

b) Describe THREE challenges they can encounter during the exercise. (6 Marks)

15. The following data represents the number of COVID-19 positive cases reported in the year 2021 in county X with a population of 10,000 females and 8,880 males.

Sex \ Months	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Male	10	20	30	40	60	50	60	70	70	90	100	70
Female	10	15	25	30	40	20	30	20	15	30	30	30

a) Using the above information, construct a line graph of male and female positive cases against the months. (12 marks)

b) Calculate incidence rate for the month of November. (4 Marks)

c) Find the prevalence rate in males as at June. (4 Marks)