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COMMUNITY HEALTH LEVEL 5

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HE/OS/CH/CC/04/5

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Apply Microbiology and Parasitology

November/December 2025

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

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WRITTEN ASSESSMENT

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Date: 21.11.2025 07:33 AM

Time: 3 HOURS

INSTRUCTIONS TO CANDIDATE

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1. This paper consists of **TWO** sections: **A** and **B**.
2. Answer **ALL** questions in section A and **ANY THREE** (3) questions in section B.
3. Marks for each question are indicated in the brackets.
4. Candidates are provided with a separate answer booklet
5. 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. Identify **FOUR** types of viruses. (4 Marks)
2. Define and name one example to each of the following as it is applied in microbiology. (4 Marks)
3. Identify **FOUR** examples of gram -positive bacterial. (4 Marks)
4. List **FOUR** life cycle stages of parasite? (4 Marks)
5. Identify **FOUR** types of bacterial diseases that commonly affect your community. (4 Marks)
6. Identify **FOUR** types of parasitic diseases that are common in Kenya. (4 Marks)
7. Name two differences between parasites and bacteria. (4 Marks)
8. Identify **TWO** roles of the bacterial in the environment. (2 Marks)
9. List **FOUR** common modes of diseases transmission. (4 Marks)
10. Define the following terms
 - a) Prokaryotes (2 Marks)
 - b) Eukaryotes. (2 Marks)
11. List **TWO** purposes of gram staining. (2 Marks)

SECTION B (60 MARKS)

Answer any THREE questions in this section

12. Community health workers in community Q have reported increased number of typhoid cases in the past two months, which has raised concerns in the ministry of health.

a) Explain FIVE signs and symptoms that must have presented by the affected group. (10 Marks)

b) Describe FIVE preventive strategies that can encouraged to avoid reoccurrence. (10 Marks)

13. Sterilization and disinfectants are important in microbiology for prevention of contamination by extraneous organisms.

a) Explain FIVE areas where disinfectants can be applied. (10 Marks)

b) Explain FIVE types of sterilization. (10 Marks)

14. Public health microbiology is the study and application of microbiological principles.

Due to its benefits to the communities, students are encouraged to learn and practice.

a) Examine FIVE roles it plays in the communities. (10 Marks)

b) Describe FIVE benefits of vaccination in preventing infectious diseases. (10 Marks)

15. Emerging of new infectious diseases such as covid-19(2019) and monkeypox which was discovered in 2022 among others, is a big challenge that human population is facing in the world.

a) Describe FIVE factors contributing to these diseases. (10 Marks)

b) Describe the roles of international collaboration in addressing emerging infectious diseases. (10 Marks)