



**TECHNICAL UNIVERSITY OF MOMBASA**

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FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF PURE & APPLIED SCIENCES

**UNIVERSITY EXAMINATION FOR:**

DIPLOMA IN LABORATORY TECHNOLOGY

AAB 2111: BIOMEDICAL TECHNIQUES – MICROBIOLOGY

END OF SEMESTER EXAMINATION

**SERIES:** APRIL 2024

**TIME:** 2HOURS

**DATE:** Pick Date Select Month Pick Year

**Instructions to Candidates**

You should have the following for this examination

*-Answer Booklet, examination pass and student ID*

This paper consists of **FIVE** questions. Attempt question ONE (**Compulsory**) and any other **TWO** questions.

**Do not write on the question paper.**

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**SECTION A:**

**Question ONE**

- a) Define the following terms: (5 marks)
  - i. Sepsis
  - ii. Virology
  - iii. Bacteria
  - iv. Broth media
  - v. Normal flora
- b) Outline two bacterial infections, stating their causative bacteria (4 mks)
- c) Outline the basis of classification of viruses (5 mks)
- d) State THREE classes of PROTOZOA (3 mks)
- e) State TWO methods by which sterilization is done (2 mks)
- f) Differentiate between vegetative state and spore state of bacteria (4 mks)
- g) State 6 Types of disinfectants (6 mks)

**SECTION B:**

**Question TWO**

- a) List FIVE types of microscopes (5 mks)
- b) Discuss the Proper care and maintenance of microscope (10 mks)

**Question THREE**

Discuss properties of an ideal disinfectant (15 mks)

**Question FOUR**

Draw a well labelled structure of a typical bacterial cell (15 mks)

**Question FIVE**

- a) Outline SEVEN factors affecting sterilization by heat (7 mks)
- b) Discuss Factors Influencing Activity of Disinfectants (8 mks)