



MURANG'A UNIVERSITY OF TECHNOLOGY
SCHOOL OF PURE, APPLIED AND HEALTH SCIENCES
DEPARTMENT OF HEALTH SCIENCES

TVET EXAMINATION

**FIRST YEAR SECOND SEMESTER EXAMINATION FOR DIPLOMA IN
MEDICAL LABORATORY SCIENCES**

MED/CU/ML/BC/01/6/A: APPLIED LABORATORY STANDARDS

DURATION: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

1. Answer Question one and any other Three questions.
2. Mobile phones are not allowed in the examination room.
3. You are not allowed to write on this examination question paper.

SECTION A: ANSWER ALL QUESTIONS IN THIS SECTION

QUESTION ONE (40 MARKS)

1. Define the following terminologies: (6marks)
 - a) Disinfection
 - b) Sterilization
 - c) Decontamination
2. What is stain removal? (3marks)
3. State five techniques used to remove stain. (5marks)
4. Elucidate the five basic stain removal rules. (5marks)
5. a. What is MSDs in full? (1mark)
 - b. What are the five components of MSDs? (5marks)
 - c. State five uses of MSDs in the lab. (5marks)
6. State five factors to consider while choosing appropriate personal protecting equipment. (5marks)
7. Name the five groups of stains removal agents used in the laboratories. (5 marks)

SECTION TWO: ANSWER ANY THREE QUESTIONS IN THIS SECTION (60 MARKS)

1. a. Define the term document in reference to medical laboratory sciences/diagnosis. (2marks)
 - b. Discuss the three elements of quality system in documentation. (8marks)
 - c. Explain five factors to consider when ensuring a good record and documentation storage. (10marks)
2. Explain ten do's and don'ts while handling chemical in laboratory. (20marks)
3. Discuss the appropriate use of Personal Protective Equipment (PPE) used in the laboratory. (20marks)
4. a. What is a laboratory reagent? (2marks)
 - b. Explain four factors to consider while choosing an appropriate laboratory reagent. (8marks)
 - c. Explain five key proper handling of chemical and reagents in the laboratory. (10marks)