



MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2013/2014

**FIRST YEAR SECOND SEMESTER EXAMINATIONS FOR
THE DEGREE OF BACHELOR OF SCIENCE IN MEDICAL
LABORATORY SCIENCE WITH INFORMATION
TECHNOLOGY**

(CITY CAMPUS - WEEKEND)

**PML 110: INTRODUCTION TO MEDICAL LABORATORY
SCIENCE AND MEDICAL TERMINOLOGY**

Date: 25th July, 2014

Time: 5.30 - 7.30 p.m.

INSTRUCTIONS:

- **Answer ALL questions in Section A.**
- **Answer Question 11 (COMPULSORY) and ANY OTHER ONE question in Section B.**



**FIRST YEAR SECOND SEMESTER EXAMINATION FOR THE DEGREE OF
BACHELOR OF MEDICAL LABORATORY SCIENCE WITH INFORMATION
TECHNOLOGY**

KISUMU CITY CAMPUS

**PML 110: INTRODUCTION TO MEDICAL LABORATORY SCIENCE AND MEDICAL
TERMINOLOGY**

Section A: Short answer questions (40 marks)

Instructions

Answer ALL questions. Clarity will be awarded. Each question carries equal value.

1. a). The medical term for lower than normal level of blood calcium is? (1 mark)
b). In medical terminology, the prefix 'a'- means? Give an example. (1 mark)
c). What is the medical term which refers to pain? Give an example. (1 mark)
d). What is an area of dead myocardial tissue called? (1 mark)
e). What is the medical term for malignancy of the bone? (1 mark)
2. Define a medical laboratory and give any THREE strategies used in the design of a standard medical laboratory (5 marks).
3. Identify the types and care of microscopes (5 marks).
4. Giving examples, describe the storage of chemicals and reagents in a medical laboratory (5 marks).
5. Describe the major components of a pH meter. Give a function of each of the component mentioned (5 marks).
6. Explain how you would maintain the stability of biological samples (5 marks).
7. Write short notes on the following:
 - a. Negative Predictive Value (NPV) (2.5 marks)
 - b. Leukopenia (2.5 marks)
8. Differentiate between the following medical conditions
 - a. Rhinorrhea and Amenorrhea (2.5 marks)
 - b. Hysterectomy and Stapedectomy (2.5 marks)

Section B: Essay question (30 marks)

Answer Question 11 and any other ONE question. Clarity will be rewarded. Use illustrations where needed.

9. a). Describe in detail the major steps in quality assurance programme (10 marks)
b). Give the significance of the quality control and assurance in a medical laboratory (5 marks).
10. Discuss the types and causes of errors in medical laboratory (15 marks).
11. Describe laboratory hazards and the safety measures you would use to avoid laboratory accidents (15 marks).