



**MASENO UNIVERSITY**  
**UNIVERSITY EXAMINATIONS 2016/2017**

**FIRST YEAR FIRST SEMESTER EXAMINATION FOR DEGREE  
OF BACHELOR OF SCIENCE IN MEDICAL BIOTECHNOLOGY,  
MEDICAL LABORATORY SCIENCES AND PHARMACEUTICAL  
SCIENCES WITH INFORMATION TECHNOLOGY**

**MAIN CAMPUS**

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

Date: 7<sup>th</sup> December, 2016

Time: 3.30 - 6.30pm

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**INSTRUCTIONS:**

- Answer ALL Questions in Section A and any other ONE in Section B.

**Section A: Answer all Questions:**

1. State **FIVE** key information provided by MSDS (material safety data sheet) **5 mks.**
2. List any **FIVE** appropriate safety and biosafety equipment in a medical laboratory **5 mks.**
3. (i). State **FOUR** major routes in which medical laboratory staff acquire work-related infections **4 mks.**  
(ii). Laboratory medicine is generally divided into two department or sections. Name them: **2 mks.**
4. There are many benefits to medical laboratories that are GCLP compliant, the main benefits include: **5 mks.**
5. Name the components of the words below and give their meanings **5 mks.**
  - i. Cytology
  - ii. Erythrocyte
6. With regard to types and uses of fire extinguishers complete the table below **5 mks**

TYPE	USE FOR	DO NOT USE FOR
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i. _____	Paper, wood, fabric	Electrical fires, flammable liquids, burning metals
ii. _____	Flammable liquids and gases, electrical fires	Alkali metals, paper
Dry powder	Flammable liquids and gases, alkali metals, electrical fires	iii. _____
Foam	iv. _____	v. _____

7. Write the working principle of a microscope **5 mks.**
8. List circulation pathways to be assessed during laboratory design **4 mks.**

**Section B: Answer any Two Questions:**

9. Discuss standard laboratory safety practices: **15mks.**
10. Discuss the professional code of conduct of a medical laboratory technologist **15 mks.**
11. In case of a biological spill, what are the appropriate actions to take: **15 mks.**
- i. When surfaces are contaminated.
  - ii. When personnel are contaminated.

