

2112H015

**BACHELOR OF VOCATION**  
**Medical Laboratory Technology**  
**Subject: Fundamental of Medical Laboratory Instruments**  
**& Reagents**  
**Subject Code: MLT502**  
**Semester: First**  
**December 2021**  
**Theory (External): 35 Marks**  
**Time: 03 Hours**

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**Instructions to the Students**

1. This Question paper consists of two Sections. All sections are compulsory.
2. Section A comprises 10 questions of objective type in nature. All questions are compulsory. Each question carries 1 mark.
3. Section B comprises 8 essay type questions out of which students need to do any 5. Each question carries 5 marks.
4. Read the questions carefully and write the answers in the answer sheets provided.
5. Do not write anything on the question paper.
6. Wherever necessary, the diagram drawn should be neat and properly labelled

**Roll Number**

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**SECTION -A (SHORT/OBJECTIVE TYPE QUESTIONS)**  
(10x1=10 Marks)

- A Difference between therapeutic test and diagnostic test
- B Medical workers who are trained to draw blood from a patient:  
a) MRI Technician                      b) Phlebotomist  
c) Pathologist                              d) Medical Lab Technician
- C A biopsy is:  
a) Removal of Finger                      b) Removal of Organ  
c) Excision of tissue sample              d) Post-mortem examination
- D How should a needle be placed for Veni puncture?  
a) Bevel down                              b) Bevel up  
c) Needle down                              d) Needle up
- E Internal and External Quality control
- F Thermometre
- G Which specimen is most commonly used to diagnose infection?  
a) Blood                                      b) Hair  
c) Stool                                        d) Urine
- H Define Biomedical waste.
- I What is Ethics?
- J Who is a Medical Lab Technologist?

**SECTION -B (ESSAY TYPE QUESTIONS)**  
(5 x 5 = 25 Marks)

- Q1 Write a note on biomedical waste generation, segregation and color coding under Biomedical Waste Management
- Q2 What are Lab ethics? Explain the code of conduct in a Medical Laboratory.
- Q3 Enumerate the role of a Medical Laboratory Technician in healthcare delivery
- Q4 Explain the various errors that may arise in improper communication between the physician and lab technician
- Q5 Explain the various safety measures commonly used in a Medical Laboratory.
- Q6 What is Autoclaving? Write a note on types and methods of Autoclaving.
- Q7 Explain in detail about the quality control measures used in Medical Laboratories
- Q8 Write a note on organization of instruments and reagents in a Medical laboratory.

\*\*\*\*\*END OF PAPER\*\*\*\*\*