

210149

**BACHELOR OF VOCATION**  
**Medical Laboratory Technology**  
**Subject: Fundamentals of Medical Laboratory, Instruments**  
**& Reagents**  
**Subject Code: MLT-S104**  
**Semester: First**  
**January 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

<b>Roll Number</b>											

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

- A. What is the scope of laboratory technology?
- B. Briefly enlist basic laboratory equipment?
- C. What is normal saline?
- D. What is specimen collection?
- E. What code of conduct must be followed in a laboratory?
- F. What is Percent solution?
- G. Why do you think communication between a physician and a lab technician is crucial for any patient?
- H. Define calibration and explain its importance?
- I. What is a Centrifuge?
- J. Why are clinical laboratory records important?

**SECTION -B (ESSAY TYPE QUESTIONS)**

**(5x5=25 Marks)**

1. Explain the organization of clinical laboratory. Highlight the role of MLT?
2. Explain which is the common glassware used in clinical laboratory. What is calibration of pipettes? Why is it important?
3. What is water distillation apparatus? Explain the steps of distillation?
4. Explain the following with their use:
  - a) Hot air oven
  - b) Mixer
5. Explain the parts of a Dark Ground microscope and how will you maintain it?
6. Explain the process and major precautions to be taken in specimen collection and its transport? Explain the correct process of specimen disposal?
7. Explain the principle and use of a Phase contrast microscope in detail?
8. Explain how will you clean, care and maintain laboratory glassware?

**===END OF PAPER===**