

# **TDC Part III**

## **Practical (Lab Work)**



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**TOPIC:- INTRODUCTION (Lab Work)**

## INTRODUCTION

It is essential that the beginner should become familiar with basic laboratory apparatus or instruments and procedures. Moreover, inculcation of information or understanding to keep the laboratory clean and put the things back in right place after every laboratory exercise is essential. Routine habit to wear lab apron and maintaining laboratory note book is also equally important. Each must have to read or follow laboratory safety guidelines or Material Safety Data Sheet (MSDS).

Here are some important points to be followed by each student, as such;

- Always wear the laboratory coat, goggles and gloves while working with reagents or chemicals in the laboratory and make it habit.
- To keep the working benches clean and always use bench-cloth to remove or absorb any spill of solvent or reagent.
- Always put the reagent bottles back to self or locker immediately after use.
- Maintaining the habit of entering log book prior or after use of each instrument is important.

- Most of the sophisticated instruments are interfaced with computer and operated through software. Therefore, either the print out of the analysis report should be taken or results should be noted in the note book and it should be considered in routine practice.
- Some reagents are toxic. So, while using them, always use safety guidelines.

Here in this unit, the basic information about laboratory glasswares, general laboratory techniques, instruments and procedures are described for the students.

## OBJECTIVES

After completing this unit, the students should;

Get familiar with the laboratory apparatus and instruments.

Learn basic laboratory basic procedures or methods.

Learn laboratory safety procedures or precautions.

Learned how to clean the working benches and after completion of laboratory exercise how to manage the apparatuses.