TD1: Creating a technical lab sheet

A technical sheet for a practical session must be created on a cardboard sheet, inspired by

handouts, and should consist of the following sections:

1-The aim of the practical session

The aim is to define the objectives of the practical session by answering the following question:

why are we conducting this practical session?

Example: For the Cellular Biology lab on plant cells, we create a microscopic preparation of

the internal epidermis of an onion scale to demonstrate that all living beings are composed of

cells, and that the cell is the fundamental unit of a living organism. The aim is to identify the

main parts of a cell and learn how to prepare and observe it under an optical microscope.

2-TP Principle

Determine what the TP is based on.

Example: For the Practical Session in Cellular Biology focusing on plant cells, we prepare a

microscopic slide of the internal epidermis of an onion scale without staining, and utilize dyes

like methylene blue for nucleus determination and neutral red for vacuole.

3-Used Material

Determine the necessary equipment for the practical session.

Example: for the Plant Cell Biology practical session, the equipment is as follows:

-Slides

-Coverslips

-Scalpels

-Tweezers

-Optical microscope

4-Reagents Used

Identify the reagents needed for the practical session.

Example: for the Plant Cell Biology practical session, the reagents are as follows:

-Distilled water
-Methylene blue
-Neutral red
5-Operating Procedure
Involves determining the main steps used to carry out the practical work.
Example: for the Plant Cell Biology practical session, the operating procedure is as follows:
\Box Cut a small fragment of the inner epidermis of an onion scale using a scalpel.
□ Place this fragment on a glass slide.
\square Add a drop of water, methylene blue, or neutral red.
\square Place a coverslip over the preparation.
☐ Remove air bubbles by pressing on the preparation.
\Box Observe under an optical microscope at magnifications of x4, x10, x40.
☐ Draw the microscopic observation.