

ANATOMY AND PHYSIOLOGY LABORATORY MANUAL REVIEWER ANSWERS

LAB EXERCISE 1: THE MICROSCOPE

INTRODUCTION

- 17th century - **Anton van Leeuwenhoek** (Dutch scientist) used one of the first microscopes to discover a new world of living organisms.
- Anton used a **simple microscope, or single lens microscope** to explore tiny microorganisms in pond water.
- The most commonly used microscope in the laboratory is the **compound microscope** made of a set of lenses.

PARTS OF THE MICROSCOPE

- ★ **Ocular or eyepiece** - set of lenses closest to the eye; magnifies an image by the factor indicated on the ocular's barrel, usually 10x.
 - Factor 10x → magnifies image by 10 times
 - Factor 5x → magnifies image by 5 times
- ★ **Body tube** - this holds the ocular in place; although called a "tube", it may look like a box in some models.
- ★ **Revolving nosepiece** - a turret-like circular mechanism that rotates to select different lenses; positioned at the bottom of the body tube.
- ★ **Objective** - attached to each set of lenses to the revolving nosepiece. Like the ocular, the objective is also marked with its magnification factor. Microscope may have all of the following objectives:
 - **4x (scanning objective)** - used for initial location of the specimen.
 - **10x (low-power objective)** - used for observing specimens that don't need greater magnification. It may also be used for the initial location of the specimen.
 - **40x (high-dry objective)** - used for specimens requiring greater magnification. This objective is called dry because it does not require the use of oil, as other high-power objectives do.
 - **100x (high-oil objective)** - used for magnification of extremely small specimens, such as bacterial cells. It must be immersed in oil, so it is called the high-oil objective.

Human Biology Lab Manual Answers Microscope Lab

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