## 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.

# **Mader 11e Lab Manual Answers**

**Rose Arny** 

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Fast Facts for the ER Nurse, Fourth Edition Jennifer Buettner, Jennifer R. Buettner, 2021-04-05 This bestselling resource has successfully prepared thousands of ER nurses to provide safe effective and high quality care to their patients This new edition is updated with guidelines from the American Heart Association Neonatal Resuscitation Program American Stroke Association Emergency Nursing Pediatric Course and Trauma Nurse Core Course This guide presents the most current information on medications street drugs the opioid crisis and intraosseous access Chapters are replete with new case studies updated photos and time tested tips This Fast Facts guide is written in bullet point format and is alphabetically organized by disease and disorder within each body system to emphasize easy access and at a glance viewing All chapters list relevant materials equipment and drugs and each diagnosis includes its definition causes signs and symptoms and interventions Helpful appendices display common abbreviations and lab values EKG rhythms frequently used medications and updated alphabetized skills checklists for self examination New to the Fourth Edition New content on administering Alteplase coronaviruses decompression sickness high altitude illness human trafficking influenza lightning injuries osteomyelitis parasitic and insect infestations post birth warning signs post cardiac arrest care rhabdomyolysis status asthmaticus and triage legal issues Updates on infectious disease emergencies disaster response emergencies environmental emergencies and OB GYN emergencies New information on fluid and electrolyte imbalance Shock and Multisystem Trauma divided into two expanded chapters Updated with useful tricks of the trade and survival tips New knowledge on street drugs including vaping concentrated marijuana and the opioid crisis Key Features Educates new ER nurses and their preceptors on the most common injuries and illnesses they will encounter Comes in handy pocket size for reference on the go Provides easy referral to equipment medications procedures and specialty care Delivers hands on teaching strategies for instructors How to **Study Science** Fred Drewes, 2000 This text aims to help students get the most out of their science course by giving them suggestions on notetaking managing study time and taking tests A multidisciplinary approach is taken including examples from biology chemistry physics geology and meterology Science Books & Films ,1987 Survey Review ,2013 **Forthcoming Books** Rose Arny, 2001-06 Joyce in the Belly of the Big Truck; Workbook Joyce A. Cascio, 2005-05

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