

# BLOOD

## Functions

- delivers O<sub>2</sub> throughout the body
- transports nutrients absorbed by the GI tract
- protects the body from infection
- maintains body temperature and chemical balance

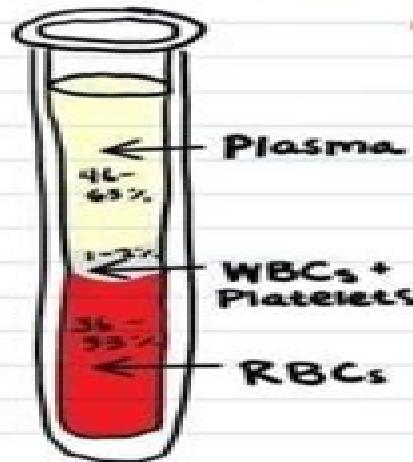
## Contents of Blood

PLASMA

- Water
- Albumin
- Globulins
- Fibrinogen
- Hormones
- Nutrients + wastes

FORMED ELEMENTS

- Erythrocytes (RBCs)
- Leukocytes (WBCs)
- Platelets



Hematocrit = % of Red Blood Cells

Packed Cell Volume = Volume of RBCs

## Blood Clotting

### Extrinsic Pathway

- ↳ triggered by an outside trauma

### Intrinsic Pathway

- ↳ triggered by damage to the internal vessel wall

### Common Pathway

- ↳ both extrinsic/intrinsic leads to the common path.

**Albumin** - most abundant, transport fatty acids + steroid hormones, affects BP + blood vol.

**Globulins** - alpha, beta + gamma. transport iron, lipids + vit. ADKE

**Fibrinogen** - produced by the liver, essential for blood clotting

**Leukocytes (WBCs)** - protect the body from external threats

**Erythrocytes (RBCs)** - transports O<sub>2</sub> and CO<sub>2</sub> between tissues & lungs. They live about 120 days

**WBCs** → 4.5 - 11  $10^9/\mu\text{L}$

**RBCs** → 3.5 - 5.5  $10^12/\mu\text{L}$

**Platelets** → 150 - 450  $10^9/\mu\text{L}$

# Anatomy Study Guide Blood

**Seeley**

## **Anatomy Study Guide Blood:**

**ACLS Study Guide - E-Book** Barbara J Aehlert, 2021-08-05 NEW Updated content includes the latest guidelines from the American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care and the International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science with Treatment Recommendations NEW 20 new illustrations are added to the book's hundreds of illustrations **Pediatric Critical Care Study Guide** Steven E. Lucking, Frank A. Maffei, Robert F. Tamburro, Neal J. Thomas, 2012-04-10 This is the first comprehensive study guide covering all aspects of pediatric critical care medicine. It fills a void that exists in learning resources currently available to pediatric critical care practitioners. The major textbooks are excellent references but do not allow concise reading on specific topics and are not intended to act as both text and study guide. There are also several handbooks available but these are usually written for general pediatric residents and lack the advanced physiology and pathophysiology required for the higher level pediatric critical care practitioner **ATI TEAS 7 Study Guide** Calvin Yates, Are you ready to take the first step toward your nursing career but unsure where to start with preparing for the ATI TEAS 7 exam? This comprehensive guide is designed to help you not only understand the structure of the exam but to excel in every section. Whether you're a first time test taker or someone looking to improve their score this book offers you the tools and strategies necessary to tackle this critical hurdle in your nursing school application process. The ATI TEAS 7 exam is an essential part of your nursing journey assessing your proficiency in key areas such as Reading Mathematics Science and English and Language Usage. With detailed explanations test taking strategies and hundreds of practice questions this book offers more than just content review. It provides a roadmap for effective studying helping you organize your time and focus on the areas that matter most. Inside you'll find a deep dive into each subject area. The Reading section teaches you how to improve your comprehension skills identify key details and interpret complex passages. The Mathematics section covers everything from basic arithmetic to more advanced concepts like algebra and geometry with strategies to solve problems quickly and accurately. In the Science section you'll explore human anatomy biology chemistry and scientific reasoning breaking down complex topics into understandable chunks. The English and Language Usage section focuses on grammar sentence structure and vocabulary ensuring you can clearly communicate ideas and effectively navigate language based questions. This guide doesn't just help you study it shows you how to study. With tips for managing time handling test anxiety and utilizing your calculator effectively you'll learn how to approach the exam strategically. You'll gain insight into how to break down multiple choice questions identify key terms and ensure that every answer you choose reflects your true understanding. To put everything into practice the book includes 200 practice questions with detailed answers and explanations. These questions will test your knowledge strengthen your weaknesses and help you build the confidence you need to succeed. This guide is your key to unlocking your potential on the ATI TEAS 7 exam and setting the stage for a

successful career in nursing With the right tools dedication and preparation you can face the exam with confidence and take one step closer to your dream *Study Guide for Introduction to Human Anatomy and Physiology* Eldra Pearl

Solomon, Mical K. Solomon, Karla Solomon, Karla Edelson-Solomon, 2009 Master content from the textbook with this helpful study tool Designed to accompany Solomon's Introduction to Human Anatomy and Physiology 3rd Edition this workbook will assist students in understanding and applying material from each chapter in the text

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**Guide for Foundations of Maternal-Newborn Nursing** Sharon Smith Murray,Trula Myers Gorrie,Emily Sloane McKinney,2001-07 This instructive self study guide is written to help students grasp important content in each chapter of the main text Learning Activities include matching terms listing important signs and symptoms describing medical therapy nursing measures and their rationales and labeling illustrations Check Yourself multiple choice questions offer a test of

factual items and higher level questions requiring application of knowledge in new ways Case Studies help students practice skills with simulated clients while Developing Insight encourages further thinking as students gain clinical experience As appropriate answers are either provided at the end of each chapter or left to the student s independent research in the main text

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