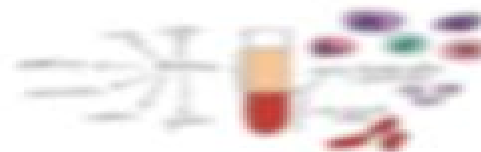


Blood components:

In humans, blood is an opaque red fluid, freely flowing but denser and more viscous than water. The characteristic colour is imparted by hemoglobin, a unique iron-containing protein. Hemoglobin brightens in colour when saturated with oxygen (oxyhemoglobin) and darkens when oxygen is removed (deoxyhemoglobin). For this reason, the partially deoxygenated blood from a vein is darker than oxygenated blood from an artery. The red blood cells (erythrocytes) constitute about 45 percent of the volume of the blood, and the remaining cells (white blood cells, or leukocytes, and platelets, or thrombocytes) less than 1 percent. The fluid portion,

plasma, is a clear, slightly sticky, yellowish liquid. After a fatty meal, plasma transiently appears turbid. Within the body the blood is permanently fluid, and turbulent flow ensures that cells and plasma are fairly homogeneously mixed.

The total amount of blood in humans varies with age, sex, weight, body type, and other factors, but a rough average figure for adults is about 50 milliliters per kilogram of body weight. An average young male has a plasma volume of about 25 milliliters and a red cell volume of about 25 milliliters per kilogram of body weight. There is little variation in the blood volume of a healthy person over long periods, although each component of the blood is in a continuous state of flux. In particular, water rapidly moves in and out of the bloodstream, achieving a balance with the extravascular fluids (those outside the blood vessels) within minutes. The normal volume of blood provides such an adequate reserve that appreciable blood loss is well tolerated. Withdrawal of 500 milliliters (about a pint) of blood from normal blood donors is a harmless procedure. Blood volume is rapidly replaced after blood loss; within hours, plasma volume is restored by movement of extravascular fluid into the circulation. Replacement of red cells is completed within several weeks. The vast area of capillary membranes, through which water passes freely, would permit instantaneous loss of the plasma from the circulation were it not for the plasma proteins—in particular, serum albumin. Capillary membranes are impermeable to serum albumin, the smallest in weight and highest in concentration of the plasma proteins. The osmotic effect of serum albumin retains fluid within the circulation, opposing the hydrostatic forces that tend to drive the fluid outward into the tissues.



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**Emily Slone McKinney, Sharon Smith
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Table of Contents Blood Componets Study Guide Answer Key

1. Understanding the eBook Blood Componets Study Guide Answer Key
 - The Rise of Digital Reading Blood Componets Study Guide Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Blood Componets Study Guide Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Blood Componets Study Guide Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Blood Componets Study Guide Answer Key
 - Personalized Recommendations
 - Blood Componets Study Guide Answer Key User Reviews and Ratings
 - Blood Componets Study Guide Answer Key and Bestseller Lists

5. Accessing Blood Componets Study Guide Answer Key Free and Paid eBooks
 - Blood Componets Study Guide Answer Key Public Domain eBooks
 - Blood Componets Study Guide Answer Key eBook Subscription Services
 - Blood Componets Study Guide Answer Key Budget-Friendly Options
6. Navigating Blood Componets Study Guide Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Blood Componets Study Guide Answer Key Compatibility with Devices
 - Blood Componets Study Guide Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Blood Componets Study Guide Answer Key
 - Highlighting and Note-Taking Blood Componets Study Guide Answer Key
 - Interactive Elements Blood Componets Study Guide Answer Key
8. Staying Engaged with Blood Componets Study Guide Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Blood Componets Study Guide Answer Key
9. Balancing eBooks and Physical Books Blood Componets Study Guide Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Blood Componets Study Guide Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Blood Componets Study Guide Answer Key
 - Setting Reading Goals Blood Componets Study Guide Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Blood Componets Study Guide Answer Key
 - Fact-Checking eBook Content of Blood Componets Study Guide Answer Key
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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