

Unit J: Circulation & Blood
BASIC FUNCTIONS OF THE CIRCULATORY SYSTEM

1. Transports oxygen from lungs to tissue
2. Transports carbon dioxide from tissue to lungs
3. Absorbs and transports nutrients from small intestine to tissues
4. Absorbs and transports water from stomach, small and large intestine to tissues and lungs
5. Carries waste products (urea, ammonia...) to kidneys for removal
6. Transports hormones from glands to target organs
7. Distributes body heat from internal source to peripheral skin for dissipation
8. Maintains pH in tissues (acts as a buffer with HHb)
9. Regulates fluid levels in tissues (along with the Lymphatic system)
10. Seals punctures in the skin or elsewhere by forming a blood clot; thus, preventing loss of blood and body fluids
11. Fights infection; involved in body defense

A. The Five Types of Blood Vessels

Basis of Comparison	Function	Structure	Location
Arteries	Transport blood AWAY from the heart	Thick, elastic walls	Usually deep, along bones
Arterioles	Control blood flow to capillaries	Thick, elastic walls, precapillary sphincters, thinner walls	Leading towards all capillaries
Capillaries	Interconnect arterioles to venules	Very thin (1 cell thick) walls	Everywhere; within a few cells of each other
Venules	Drain blood from capillaries and join to form a vein	Thinner walls than veins	Often on the surface
Veins	Transport blood TOWARDS the heart	Thin walls; contain valves	Often on the surface surrounded by skeletal muscle

1. **ARTERIES:** (see page 226)
2. **ARTERIOLES:** (see page 227)
3. **CAPILLARIES:** (see page 241)
4. **VENULES:** (see page 227)
5. **VEINS:** (see page 226)

Circulatory System Blood Study Guide

CH Cherryholmes



Circulatory System Blood Study Guide:

Whispering the Secrets of Language: An Psychological Journey through **Circulatory System Blood Study Guide**

In a digitally-driven earth wherever screens reign great and instant conversation drowns out the subtleties of language, the profound strategies and emotional subtleties hidden within phrases usually go unheard. Yet, situated within the pages of **Circulatory System Blood Study Guide** a interesting fictional treasure blinking with raw feelings, lies an exceptional quest waiting to be undertaken. Composed by a talented wordsmith, that charming opus encourages viewers on an introspective trip, softly unraveling the veiled truths and profound affect resonating within the fabric of each and every word. Within the emotional depths of the touching evaluation, we will embark upon a honest exploration of the book is primary themes, dissect its fascinating writing style, and succumb to the powerful resonance it evokes strong within the recesses of readers hearts.

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