

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 And Blood Study Guide

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