VI. CIRCULATORY SYSTEM

 1. purpose of system:

 2. annelids:

 3. arthropods / open circulatory system:

 A. Vertebrate Circulatory Systems

 1. arteries

 a. structure:

 b. direction:

 c. pressure:

 2. capillaries

 a. structure:

 b. function:

 3. veins

 a. direction:

 b. pressure:

 c. unidirectional valves:

 B. Patterns of Circulation in Vertebrates

 1. fish (+ problem):

 2. other higher animals

 a. pulmonary circuit:

 b. systemic circuit:

 C. The Heart

 1. 2 chamber hearts

 a. what organisms?

 b. inefficiency:

 2. 4 chamber hearts

 a. what organisms?

 b. atria:

 c. ventricles:

 3. blood flow

 a. receives blood from body:

 i. veins bringing blood:

 b. pumps blood to lungs:

 c. receives blood from lungs:

 d. pumps blood to body:

 i. aorta:

 4. control of beating

 a. cardiac muscle:

 b. sinoatrial nerve:

 c. atrioventricular nerve:

 D. The Blood

 1. Plasma:

 2. Red blood cells:

 a. hemoglobin

 3. white blood cells:

 4. platelet:

 a. thromboplastin:

 b. fibrinogen / fibrin:

 E. Blood Types

 1. antigens:

 2. antibodies: