Lab 1: The Heart - Anatomy

- 1. Chambers and Valves: Describe the four chambers of the heart. How do the atrioventricular and semilunar valves function differently in regulating blood flow within the heart?
- 2. Blood Flow Pathway: Trace the pathway of blood through the heart, starting from the vena cava and ending at the aorta. Include the roles of each chamber and valve in your description.
- 3. Cardiac Muscle Tissue: Compare and contrast the structure of cardiac muscle tissue with that of skeletal muscle. How does the unique structure of cardiac muscle support its function?
- 4. Coronary Circulation: Identify the major coronary arteries and veins on the dissected heart. Explain their significance in providing oxygen and nutrients to the heart muscle.
- 5. Electrical Conduction System: Locate and describe the components of the heart's electrical conduction system (sinoatrial node, atrioventricular node, bundle of His, and Purkinje fibers). How does this system coordinate the heartbeat?