

Unit 2 study guide – Heart, Blood Vessels, and Circulation of blood

QUESTION 1 – The Heart

The heart consists of four pumps – two receive blood from the lungs, the other pumps out into the body. The myocardium, or muscle, contracts to generate electrical impulses and contractile force within the heart muscle.

The four electrical-chemical-mechanical couplings in ventricular myocardium and non-ventricular compartments in branching structures called gap junctions are specific arrangements between cardiac myocytes. These arrangements are highly ordered, from end-to-end between adjacent cells to form a syncytium of the myocardium. This arrangement is important for the propagation of electrical signals and mechanical coupling in the ventricular myocardium.

The beating of the myocardium is coordinated by a pacemaker system in the heart that generates rhythmic electrical impulses. The sinoatrial node is the primary pacemaker and sets the heart rate. The atrioventricular node delays the electrical signal to allow the ventricles to fill with blood. The bundle of His and the left and right bundle branches conduct the electrical signal to the ventricles. The ventricles contract to pump blood out of the heart. The heart rate is regulated by the autonomic nervous system. The sympathetic nervous system increases the heart rate and the parasympathetic nervous system decreases the heart rate. The heart rate is also regulated by the renin-angiotensin-aldosterone system (RAAS) and the atrial natriuretic peptide (ANP) system.

QUESTION 2 – CORONARY

1. The coronary arteries supply blood to:
 - a. Myocardium (muscle of the heart)
 - b. **Myocardium (muscle of the heart)**
 - c. Myocardium (muscle of the heart)
 - d. Myocardium (muscle of the heart)
2. The coronary veins of the heart, drain deoxygenated blood, into:
 - a. Myocardium (muscle of the heart)
 - b. **Superior vena cava**
 - c. Myocardium (muscle of the heart)
 - d. Myocardium (muscle of the heart)
3. Myocardium (muscle of the heart) is also called:
 - a. **Myocardium**
 - b. Myocardium (muscle)
 - c. Myocardium
 - d. Myocardium (muscle)
4. Myocardium (muscle of the heart) is also called:
 - a. **Myocardium**
 - b. Myocardium (muscle)
 - c. Myocardium
 - d. Myocardium (muscle)

Heart And Circulation Study Guide Answers

Rachel Sandford



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