

Circulatory System Quiz Questions and Answers PDF

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WI	What type of blood vessel carries blood away from the heart?		
0	Veins Capillaries Arteries ✓ Lymphatics		
	Arteries are the blood vessels responsible for carrying blood away from the heart to various parts of the body. They play a crucial role in the circulatory system by delivering oxygenated blood to tissues and organs.		
Which valve is located between the left atrium and left ventricle?			
0	Tricuspid Valve Pulmonary Valve Mitral Valve ✓ Aortic Valve		
	The valve located between the left atrium and left ventricle is known as the mitral valve. It plays a crucial role in ensuring proper blood flow from the atrium to the ventricle during the heart's pumping cycle.		
Which component of blood is primarily responsible for oxygen transport?			
0	White Blood Cells Plasma		
_	Platelets Red Blood Cells ✓		
	The primary component of blood responsible for oxygen transport is hemoglobin, which is found in red blood cells. Hemoglobin binds to oxygen in the lungs and carries it to tissues throughout the body.		

What is the main function of the pulmonary circulation?



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0	Supply oxygen to the body Remove waste products from tissues Oxygenate blood ✓ Distribute nutrients
	The pulmonary circulation is responsible for transporting deoxygenated blood from the heart to the lungs and returning oxygenated blood back to the heart. This process is essential for gas exchange, allowing the blood to receive oxygen and release carbon dioxide.
Wł	nich chamber of the heart receives oxygenated blood from the lungs?
0	Right Atrium Left Atrium ✓ Right Ventricle Left Ventricle
	The left atrium is the chamber of the heart that receives oxygenated blood from the lungs. It plays a crucial role in the circulatory system by ensuring that oxygen-rich blood is delivered to the rest of the body.
Wł	nich of the following is a common risk factor for hypertension?
0	Low salt intake High physical activity Obesity ✓ Young age
	Common risk factors for hypertension include obesity, high salt intake, lack of physical activity, and excessive alcohol consumption. Managing these factors can help reduce the risk of developing high blood pressure.
Wł	nich of the following are functions of the circulatory system? (Select all that apply)
	TransportING oxygen and nutrients ✓ Producing hormones Removing waste products ✓ Regulating body temperature ✓
	The circulatory system is responsible for transporting oxygen and nutrients to cells, removing waste products, and regulating body temperature and pH levels



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What is the lifespan of a typical red blood cell?		
30 days60 days90 days120 days ✓		
A typical red blood cell has a lifespan of about 120 days in the human body. After this period, they are usually removed from circulation by the spleen and liver.		
Which of the following are phases of the cardiac cycle? (Select all that apply)		
 □ DIASTOLIC ✓ □ SYSTOLIC ✓ □ Mitotic □ Ejection ✓ 		
The phases of the cardiac cycle include diASTOLE and systOLE, which represent the relaxation and contraction of the heart, respectively. Other phases may include isovolumetric contraction and isovolumetric relaxation, but the primary phases are diASTOLE and systOLE.		
Which lifestyle changes can help maintain a healthy circulatory system? (Select all that apply)		
 Regular exercise ✓ Smoking Balanced diet ✓ ExcessIVE alcohol consumption 		
Maintaining a healthy circulatory system can be achieved through various lifestyle changes such as regular exercise, a balanced diet, avoiding smoking, and managing stress levels.		
Which of the following are types of white blood cells? (Select all that apply)		
 □ Erythrocytes □ Neutrophils ✓ □ Lymphocytes ✓ □ Platelets 		



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White blood cells, also known as leukocytes, include several types such as lymphocytes, neutrophils, monocytes, eosinophils, and basophils. These cells play crucial roles in the immune response and protecting the body against infections.

Which of the following are symptoms of a heart attack? (Select all that apply)		
 Chest pain ✓ Shortness of breath ✓ Headache Nausea ✓ 		
Common symptoms of a heart attack include chest pain, shortness of breath, nausea, and pain in the arms, back, neck, or jaw. Recognizing these symptoms is crucial for timely medical intervention.		
What is the role of the sinoatrIAL (SA) node in the heart?		
 Pump blood to the lungs Initiate the heartbeat ✓ Regulate blood pressure Filter blood 		
The sinoatrIAL (SA) node is the heart's natural pacemaker, responsible for initiating the electrical impulses that regulate the heartbeat. It sets the rhythm of the heart by generating signals that cause the atria to contract and pump blood into the ventricles.		
What factors can influence blood pressure? (Select all that apply)		
 Heart rate ✓ Blood volume ✓ Blood vessel elasticity ✓ 		
Body temperature		
Blood pressure can be influenced by various factors including diet, physical activity, stress levels, genetics, and underlying health conditions.		