

Epub free Chapter 37 2 circulatory and respiratory systems answer key (Download Only)

the human circulatory system has a complex network of blood vessels that reach all parts of the body this extensive network supplies the cells tissues and organs with oxygen and nutrients and removes carbon dioxide and waste compounds the human respiratory and circulatory systems work together to supply the body with oxygen and get rid of waste carbon dioxide while the former deals with air and the latter with blood they work together seamlessly by coordinating the functions of the many parts of each system key terms the circulatory system is a network consisting of blood blood vessels and the heart this network supplies tissues in the body with oxygen and other nutrients transports hormones and removes unnecessary waste products correct the respiratory system works directly with the circulatory system to provide oxygen to the body oxygen taken in from the respiratory system moves into blood vessels that then circulate oxygen rich blood to tissues and cells gas exchange between tissues and the blood is an essential function of the circulatory system in humans other mammals and birds blood absorbs oxygen and releases carbon dioxide in the lungs thus the circulatory and respiratory system whose function is to obtain oxygen and discharge carbon dioxide work in tandem the human circulatory system has a complex network of blood vessels that reach all parts of the body this extensive network supplies the cells tissues and organs with oxygen and nutrients and removes carbon dioxide and waste compounds hank takes us on a trip around the body we follow the circulatory and respiratory systems as they deliver oxygen and remove carbon dioxide from cells and help make it possible for our bodies to function what are the circulatory system organs your heart is the only circulatory system organ blood goes from the heart to the lungs to get oxygen the lungs are part of the respiratory system your heart then pumps oxygenated blood through arteries to the rest of the body circulatory system system that transports nutrients respiratory gases and metabolic products throughout a living organism permitting integration among the various tissues the circulatory and respiratory systems work together to sustain the body with oxygen and to remove carbon dioxide pulmonary circulation facilitates the process of external respiration deoxygenated blood flows into the lungs 11 3 circulatory and respiratory systems learning objectives by the end of this section you will be able to describe the passage of air from the outside environment to the lungs explain how the lungs are protected from particulate matter describe the function of the circulatory system describe the cardiac cycle the circulatory system which is made up of the heart and blood vessels supports the respiratory system by bringing blood to and from the lungs the circulatory system helps deliver nutrients and oxygen from the lungs to tissues and organs throughout the body the interplay of respiration circulation and metabolism is the key to the functioning of the respiratory system as a whole cells set the demand for oxygen uptake and carbon dioxide discharge that is for gas exchange in the lungs the circulation of the blood links the sites of oxygen utilization and uptake your respiratory system is the organs and structures in your body that allow you to breathe it includes your lungs nose mouth and the tubelike structures airways that connect them you also have muscles and blood vessels that support your respiratory system and ribs to protect it human respiratory system the system in humans that takes up oxygen and expels carbon dioxide the design of the respiratory system passage of air through the respiratory tract explained the respiratory tract conveys air from the mouth and nose to the lungs where oxygen and carbon dioxide are exchanged between the alveoli and the capillaries with every inhale air rushes through your windpipe to your lungs after 20 to 30 branch points oxygen diffuses into the liquid around the alveoli and slips into your blood carbon dioxide travels from the blood to the air and leaves the body when you exhale learn more about the respiratory system in these videos the circulatory or cardiovascular system is composed of the heart blood vessels and the blood it delivers essential substances to the cells of the body in most adult humans a typical resting heart rate is between 60 to 100 beats per minute the total length of all of the blood vessels in your body is about 60 000 miles capillaries are your science health and medicine unit 2 circulatory system anatomy and physiology about this unit your heart sits in the middle of your chest and pumps blood from about 4 weeks after conception until the day that you die this little pump is the size of your clenched fist and it never stops the circulatory system consists of four major components heart arteries veins blood the heart and its

function about the size of two adult hands held together the heart rests near the

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expels carbon dioxide the design of the respiratory system passage of air through the respiratory tract explained the respiratory tract conveys air from the mouth and nose to the lungs where oxygen and carbon dioxide are exchanged between the alveoli and the capillaries

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