

A&P Chapter 11 The Cardiovascular System

1. Summarize the functions of the circulatory system.
 - major function is **transportation**
 - using blood as transport vehicle, the system carries **oxygen, nutrients, cell wastes, hormones, and many other substances** vital for homeostasis to and from cells
 - force to move blood around the body is provided by beating heart
2. State the location of the heart.
 - heart is located within bony thorax and flanked on each side by the lungs
 - more pointed apex is pointed toward left hip and rests on the diaphragm (level of 5th intercostal space)
 - heart's broader posterosuperior aspect, or base from which great vessels of body merge, points toward right shoulder and lies beneath the second rib
3. Describe the coverings of the heart.
 - heart enclosed by double sac of serous membrane (pericardium)
 - thin **visceral pericardium (epicardium)** hugs external surface of heart and is part of heart wall
 - epicardium is continuous at heart base with loosely applied **parietal pericardium**
 - serous fluid (slippery lubricating) produced by serous pericardial membranes
 - allows heart to beat easily in almost frictionless environment as pericardial layers slide smoothly across each other
4. Describe the walls of the heart.
 - heart walls composed of three layers: **epicardium, myocardium, and endocardium**
 - epicardium is thin visceral pericardium (#3 above)
 - myocardium is middle layer of wall and is composed of thick bundles of cardiac muscle twisted and whorled into ringlike arrangement
 - it is the **myocardium** that actually contracts
 - endocardium (innermost) is thin, glistening sheet of endothelium that lines heart chambers
 - is continuous with lining of blood vessels entering and leaving heart
5. Describe the chambers of the heart.
 - heart has four hollow chambers or cavities
 - two atria and two ventricles
 - each chamber lined with endocardium
 - superior atria are primarily **receiving chambers**

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coronary sinus empties into the ----Atria. Relative to the ...

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nervous system increases heart rate and the vagus nerve of the parasympathetic nervous system decreases heart rate. 11. For most people, their resting heart rate is between 60 and 80 b.p.m. During exercise that can increase to as many as 200 beats per minute for an athlete; for the rest of us, 150 b.p.m. is about all we can safely manage! BLOOD VESSELS (ARTERIES, VEINS and CAPILLARIES) 1. The ...

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system (Chapter 12) brings oxy-gen to the blood and removes carbon dioxide from it Chapter 11 the cardiovascular system packet answer key. The . cardiovascular. system transports that blood, carry-Basic schematic of the CV system. Figure 11. 1. The heart and blood vessels form a . closed circuit. that transports blood from the heart to various parts of the body and back to the heart.

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allow blood to flow in only one direction through the heart chambers—from the atria through the ventricles and out the great arteries leaving the heart (see Figure 11.3b). The atrioventricular (AV) valves (a'tre-o-ven-trik'u ...

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Respiratory System Study Guide Key 11 Respiratory System Study Guide KEY • Hair in nose filters out large particles in air • Sticky mucus moistens/humidifies air and traps dust + small particles • Vascular tissue warms air Chapter 13 Respiratory System Packet Answer Key Lungs- A respiratory organ that transports oxygen into the ...

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Ch 11 The cardiovascular system anatomy. cardiovascular system. mediastinum. apex. base. the organs and tissues involved in circulating blood and lymph... The part of the thoracic cavity between the lungs that contain... the pointed end of the heart which extends slightly to the left... (anatomy) posteriosuperior aspect of the heart. cardiovascular system. the organs and tissues involved in ...

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