

The Structure of the Heart & Human Circulation

I. Structure of Heart

A. Description

1. _____ (3 layers of muscle) located under _____ and _____
 - a. _____ - surrounds heart
 - b. _____ - thick layer made of cardiac muscle
 - c. _____ - inner lining of heart containing specialized muscle fibers called _____
2. heart is separated in half by _____
3. heart is enclosed in a double layered _____ called _____; sac is anchored to the _____ and _____ and is filled with a small amount of _____ fluid

B. Parts

1. each side is divided into _____
 - a. top chambers: _____ (_____ singular); _____; _____ and send it to other set of chambers
 - b. bottom chambers: _____; _____; _____; right ventricle sends blood to _____; left ventricle sends blood to _____
2. chambers are separated by _____ (A-V valves)
 - a. _____ is located between _____ and _____; closes with chordae tendinae attached to papillary muscle
 - b. _____ (_____) is located between _____ and _____
 - c. valves control _____ through heart and prevent _____
3. blood leaves _____ into lungs or body through _____
 - a. _____ valve is at the entrance of the _____ (leads to _____)
 - b. _____ valve is at the entrance of the _____ (leads to _____)

II. Human Circulation (_____)

A. _____ blood

1. _____ blood from the _____ (head) and _____ (body) empties into _____

2. blood moves from _____ through the _____ into the _____
3. blood moves from the _____ through the _____ up the pulmonary trunk into the _____ and into the _____

B. _____ blood

1. _____ blood returns to the heart through the _____ and empties into the _____
2. blood moves from the _____ through the _____ into the _____
3. blood moves from the _____ through the _____ into the _____ where it travels to the rest of the _____ and the heart
 - a. 1st 2 branches of the aorta (_____) supply blood to the heart
 - b. _____ drain blood from the myocardial _____ into the _____

