

## Chapter 15-Study guide

### Cardiovascular System

#### 15.1 Overview of the Cardiovascular System

1. The \_\_\_\_pulmonary\_\_\_\_ circuit picks up oxygen from the lungs and the systemic\_\_\_\_ circuit delivers oxygen to the body's cells.

- **Pulmonary circuit:** Transports oxygen poor blood from heart to lungs and back to the heart.
- **Systemic circuit:** Transports oxygen-rich blood from the heart to all body cells
- **Veins:** carry blood towards the heart
- **Arteries:** carry blood away from the heart

#### 15.2 The Heart

2. The heart is located \_\_\_\_medial\_\_\_\_ to the lungs, \_\_\_\_anterior\_\_\_\_ to the vertebral column, and \_\_\_\_posterior\_\_\_\_ to the sternum.

- The heart is a hollow cone shaped, muscular pump within the mediastinum; it rests on the diaphragm.
- Its apex extends to the fifth intercostal space.
- **Function of heart:** supplying oxygen and nutrients to tissues, removes carbon dioxide.

3. Compare the layers of the pericardium and the heart wall.

- ☐ **Pericardium:** covering of the heart and large blood vessels. Consists of 2 layers
  1. **Fibrous pericardium:** outer tough layer of connective tissue
  2. **Serous pericardium:** delicate double layer
    - **Parietal pericardium:** Covers the inner layer surface of the fibrous pericardium.
    - **Visceral pericardium (epicardium):** inner layer directly covers the heart; visceral layer folds back and becomes the parietal pericardium.
    - **Pericardial cavity:** Space between visceral and parietal pericardium layers filled with serous fluid to reduce friction.

# Course 15 Study Guide

**CH Cherryholmes**



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