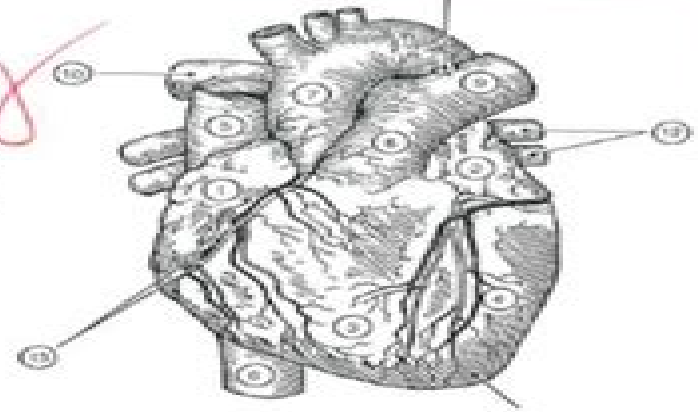
11 THE CARDIOVASCULAR SYSTEM

Key



The major structures of the cardiovascular system, the heart and blood vessels, play a vital role in human physiology. The major function of the cardiovascular system is transportation. Using blood as the transport vehicle, the system carries nutrients, gases, wastes, antibodies, electrolytes, and many other substances to and from body cells. Its propulsive force is the contracting heart.

The anatomy and location of the heart and blood vessels and the important understandings of cardiovascular physiology (for example, cardiac cycle, ECG, and regulation of blood pressure) are the major topics of this chapter.

THE HEART

Anatomy of the Heart

1. Complete the following statements by inserting your answers in the answer blanks.

Thorax 1.
Diaphragm 2.
Second 3.
Aorta 4.
Right Atrium 5.
Atria 6.
Ventricles 7.
Endocardium 8.
Epicardium 9.

The heart is a cone-shaped muscular organ located within the __(1)__. Its apex rests on the __(2)__, and its base is at the level of the __(3)__ rib. The coronary arteries that nourish the myocardium arise from the __(4)__. The coronary sinus empties into the __(5)__. Relative to the roles of the heart chambers, the __(6)__ are receiving chambers, whereas the __(7)__ are discharging chambers. The membrane that lines the heart and also forms the valve flaps is called the __(8)__. The outermost layer of the heart is called the __(9)__. The fluid that fills the pericardial sac acts to decrease __(10)__ during heart activity. The heart muscle, or myocardium, is composed of a specialized type of muscle tissue called __(11)__.

Friction 10.
Cardiac muscle 11.

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