

CHAPTER 5: CARDIOVASCULAR SYSTEM: HEART AND BLOOD VESSELS

Study Guide

1. List the exchanges that occur in the cardiovascular system. [5.1, p.92, Fig. 5.1]
2. List the functions of the cardiovascular system. [5.1, p.92]
3. Describe the structure and function of arteries, capillaries, and veins. [5.2, pp.93–94, Fig. 5.2]
4. Describe external heart anatomy. [5.3, p.94, Fig. 5.3]
5. Trace the path of blood flow through the heart. [5.3, p.96–97, Fig. 5.4]
6. Explain the stages in the cardiac cycle. [5.3, pp.97–99, Fig. 5.5]
7. Explain how the conduction system of the heart controls the heartbeat. [5.3, pp.97–98, Fig. 5.6]
8. Describe how impulses from the nervous system and hormones control the heart rate. [5.3, pp.98–99, Fig. 5.6]
9. Describe the waves found in the electrocardiogram. [5.3, p.99, Fig. 5.6]
10. Identify the factors that influence pulse rate and blood pressure. [5.4, pp.99–100, Figs. 5.7, 5.8, Table 5.1]
11. Describe the forces that drive blood flow in arteries and return blood to the heart through the veins. [5.4, pp.100–101, Fig. 5.9]
12. Name and locate on a drawing the major arteries and veins. [5.5, pp.102–103, Figs. 5.10, 5.11]
 - ☑ Identify the major vessels of the pulmonary circuit. [5.5, p.102, Figs. 5.10, 5.11]
 - ☑ Identify the major vessels of the systemic circuit. [5.5, p.103, Figs. 5.10, 5.11]
13. List disorders of the cardiovascular system, their causes and prevention. [5.7, pp.105–110, Figs. 5.14, 5.15, 5.16]
14. Understand and use the bold-faced and italicized terms included in this chapter. [Understanding Key Terms, p.113]