

UNIT TWO (CHAPTERS 19 AND 14)

CHAPTER 19:

THE STUDENT SHOULD BE ABLE TO:

1. List the general functions of the respiratory system.
2. Name and describe the location of the organs of the respiratory system.
3. Describe the function of each organ of the respiratory system.
4. Explain how pulmonary ventilation (inspiration and expiration) is accomplished.
5. Name and define each of the respiratory air volumes.
6. List several non-respiratory air movements and explain how each occurs.
7. Locate the respiratory centers and explain how they control normal breathing.
8. Discuss how various factors affect the respiratory center.
9. Describe the structure and function of the respiratory membrane.
10. Explain how oxygen and carbon dioxide are transported in the blood.
11. Review the major events in cellular respiration, including why cells need oxygen.
12. Explain how cells use oxygen.

CHAPTER 14:

THE STUDENT SHOULD BE ABLE TO:

1. Describe the general characteristics of blood and discuss its major functions.
2. Distinguish between the various types of cells and cell fragments found in blood, both by appearance and by function.
3. Discuss the life cycle of a red blood cell.
4. Explain how red blood cell production is controlled.
5. List the major components of blood plasma and describe the functions of each of these components.
6. Define HEMOSTASIS and explain the mechanisms that help to achieve it.
7. Review the major steps in blood coagulation.
8. Name, be able to recognize, and give the function of the five kinds of white blood cells.
9. Explain how coagulation can be prevented.
10. Explain the basis for blood typing.
11. Describe how blood reactions may occur between fetal and maternal tissues.