

Section 37–2 Blood and the Lymphatic System (pages 951–955)

Key Concepts

- What is the function of each type of blood cell?
- What is the function of the lymphatic system?

Blood Plasma (page 951)

1. The straw-colored fluid portion of blood is called _____.
2. Plasma is about 90 percent water and 10 percent _____

Match each type of plasma protein with its function.

	Type of Protein	Function
_____	3. albumin	a. Helps blood clot
_____	4. globulin	b. Regulates osmotic pressure and blood volume
_____	5. fibrinogen	c. Fights viral and bacterial infections

Blood Cells (pages 952–954)

6. List the three components of the cellular portion of blood.
a. _____ b. _____ c. _____
7. What is the role of red blood cells? _____
8. What is hemoglobin? _____
9. Is the following sentence true or false? Mature red blood cells have two nuclei.

10. Circle the letter of each sentence that is true about white blood cells.
a. They contain nuclei.
b. They attack foreign substances.
c. They contain hemoglobin.
d. They are also called leukocytes.
11. Is the following sentence true or false? Most white blood cells live for an average of 120 days. _____
12. White blood cells that engulf and digest foreign cells are called _____.
13. What does a sudden increase in the number of white cells tell a physician?

14. List the two components of blood that make clotting possible.

a. _____ b. _____

15. Number the drawings below to show the correct sequence in which a blood clot forms when a blood vessel is injured.



16. A genetic disorder that results from a defective protein in the clotting pathway is _____.

The Lymphatic System (pages 954–955)

17. What is the lymphatic system? _____

18. The fluid lost by blood is called _____.

19. What is the function of lymph nodes? _____

Reading Skill Practice

When you read a section with difficult material, writing a summary can help you identify and remember the main ideas and supporting details. Write a concise paragraph summing up the material under each heading in Section 37–2. Each of your paragraphs should be much shorter than the text under that heading in your book. Include each of the highlighted, boldface vocabulary terms in your summary. Do your work on a separate sheet of paper.