

SECTION 46-2 REVIEW

BLOOD

VOCABULARY REVIEW Explain the relationship between the terms in each of the following pairs of terms.

1. leukocyte, phagocyte _____

2. antigen, antibody _____

3. erythrocyte, hemoglobin _____

4. platelet, fibrin _____

MULTIPLE CHOICE Write the correct letter in the blank.

- _____ 1. When oxygen is carried by the blood, it is bonded to
 a. platelets. b. antibodies. c. plasma. d. hemoglobin.
- _____ 2. Phagocytes
 a. carry hemoglobin. c. engulf microorganisms.
 b. synthesize erythrocytes. d. produce antibodies.
- _____ 3. Platelets
 a. are formed in lymph nodes. c. produce hemoglobin.
 b. are involved with blood clotting. d. are whole cells.
- _____ 4. Mature red blood cells
 a. live for several years. c. promote clotting.
 b. are the largest cells in the blood. d. do not have a nucleus.
- _____ 5. If someone is receiving a blood transfusion, which of the following is most important to know?
 a. the number of erythrocytes in the donated blood
 b. if the father of the blood donor is Rh⁺
 c. the donor's blood type
 d. if the blood recipient has eaten within the last six hours

SHORT ANSWER Answer the questions in the space provided.

1. How is oxygen transported in the blood? _____

2. List two structural differences and two functional differences between erythrocytes and leukocytes.

3. Explain why a person with type AB blood can donate blood only to a person with the same blood type. _____

4. Describe the role of platelets in blood clotting. _____

5. **Critical Thinking** How might lack of dietary iron affect the oxygen-carrying capacity of the blood?

STRUCTURES AND FUNCTIONS Use the table below to answer the following questions.

Blood types	Antigen on red blood cells	Can give blood to
A	A	A, AB
B	B	B, AB
AB	A and B	AB
O	none	A, B, AB, O

1. Explain why type O blood can be donated in a blood transfusion regardless of the recipient's blood type. _____

2. Describe the antibody-antigen interactions that would occur if an Rh⁻ person with type B blood received blood from an Rh⁺ person with type AB blood. _____

