



BLOOD

Blood, the "life fluid" that courses through the body's blood vessels, provides the means by which the body's cells receive vital nutrients and oxygen and dispose of their metabolic wastes. As blood flows past the tissue cells, exchanges continually occur between the blood and the tissue cells so that vital activities can go on continuously.

This chapter provides an opportunity to review the general characteristics of whole blood and plasma, to identify the various formed elements (blood cells), and to recall their functions. Blood groups, transfusion reactions, clotting, and various types of blood abnormalities are also considered.

COMPOSITION AND FUNCTIONS OF BLOOD

1. Complete the following description of the components of blood by writing the missing words in the answer blanks.

- | | | |
|-------|-----|--|
| _____ | 1. | In terms of its tissue classification, blood is classified as a _____ (1) because it has living blood cells, called _____ (2), suspended in a nonliving fluid matrix called _____ (3). The "fibers" of blood only become visible during _____ (4). |
| _____ | 2. | |
| _____ | 3. | |
| _____ | 4. | If a blood sample is centrifuged, the heavier blood cells become packed at the bottom of the tube. Most of this compacted cell mass is composed of _____ (5), and the volume of blood accounted for by these cells is referred to as the _____ (6). The less dense _____ (7) rises to the top and constitutes about 45% of the blood volume. The so-called "buffy coat," composed of _____ (8) and _____ (9), is found at the junction between the other two blood elements. The buffy coat accounts for less than _____ (10) % of blood volume. |
| _____ | 5. | |
| _____ | 6. | |
| _____ | 7. | |
| _____ | 8. | |
| _____ | 9. | Blood is scarlet red in color when it is loaded with _____ (11); otherwise, it tends to be dark red. |
| _____ | 10. | _____ 11. |

Chapter 10 Blood Packet Key

J. M. Cairo



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