

CHAPTER 11: BLOOD

11.1 FUNCTIONS OF BLOOD BLOOD

- is considered as the "essence of life".
- it defines our character and emotions

HEART

- pumps blood through blood vessels that extend throughout the body.

1. TRANSPORT OF GASES, NUTRIENTS, AND WASTE PRODUCTS.
2. TRANSPORT OF PROCESSED MOLECULES
3. TRANSPORT OF REGULATORY MOLECULES
4. REGULATION OF pH AND OSMOSIS
5. MAINTENANCE OF BODY TEMPERATURE
6. PROTECTION AGAINST FOREIGN SUBSTANCES
7. CLOT FORMATION

11.2 COMPOSITION OF BLOOD BLOOD

- is a type of connective tissue that consists of liquid matrix containing cells and cell fragments.

LIQUID MATRIX

- is the plasma

CELLS AND CELL FRAGMENTS

- is the formed elements

PLASMA

- accounts for slightly more than half 55% of the total blood volume

FORMED ELEMENTS

- accounts for slightly less than half 45%

BLOOD VOLUME

- about 4-5 liters to adult female
- about 5-6 liters in the adult male
- blood makes up about 8% of total body weight*

11.3 PLASMA

PLASMA

- is a pale yellow fluid that consists of about 91% water, 7% proteins, and 2% other components such as *ions, nutrients, gases, waste products and regulatory substances.*

PLASMA PROTEINS

1. ALBUMIN

- makes up 58% of the plasma proteins

2. GLOBULINS

- accounts for 38% of the plasma proteins
- functions as transport molecules as well as the albumin.
- *antibodies & complement are part of the immune system.*

3. FIBRINOGEN

- clotting factor; constitutes 4% plasma proteins

FIBRIN

- a threadlike protein that *forms blood clots*.
- activation of clotting factors that results in the conversion of fibrinogen to *fibrin*.

Chapter 11 Blood Study Guide

Wolfgang Guggemos

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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