

# Chapter 17 Blood

## Blood Content:

plasma + formed elements

formed elements - living blood

"cells" suspended in plasma

- Erythrocytes - (RBCs) red blood cells
- Leukocytes - (WBCs) white blood cells
- Platelets - cell fragments



plasma

(Buffy coat)  
- WBCs + platelets  
- RBCs

plasma - non living fluid matrix

90% water		• nutrients
60% albumin		• hormones
36% Globulins		• wastes
4% fibrinogen		• gases
		• proteins

Sticky, opaque, metallic taste    pH = 7.35 - 7.45  
high O<sub>2</sub> - scarlet, low O<sub>2</sub> - dark red    V = 5-6L men, 4-5L women

## Blood function:

1. **Distribution** - delivering O<sub>2</sub> and nutrients to body cells; transporting metabolic wastes to lungs and kidneys for elimination; transporting hormones from endocrine organs to target organs
2. **Regulation** - maintaining body temp by absorbing and distributing heat; maintaining normal pH buffers; maintaining adequate fluid volume in circulatory system
3. **protection** - preventing blood loss - plasma proteins and platelets → clot formation; preventing infection

## RBCs



Spectrin - provides flexibility to change shape    • 97% hemoglobin form fib function  
no nucleus

biconcave disks, anucleate, no organelles

RBC function: respiratory gas transport, hemoglobin binds with O<sub>2</sub>

**Hemoglobin** - protein in RBC that carries oxygen

Globin:      Heme:

- 4 polypeptide chains    • pigment bonded to globin
- 2 alpha + 2 beta chains    chain - gives blood red color

Oxyhemoglobin - ruby red - O<sub>2</sub> loading in lungs

deoxyhemoglobin - dark red - O<sub>2</sub> unloading in tissues

Carbaminohemoglobin - 20% CO<sub>2</sub> in blood binds to Hb

- heme iron (Fe) binds to 1 O<sub>2</sub>
- RBC - 250mil Hb molecules
- Each Hb can produce 4 O<sub>2</sub>

## Hematopoiesis

- formation of blood cells in red bone marrow

hemocytoblasts - hematopoietic Stem Cells

hematocrit - % of blood volume that is in RBCs

47% ± 5% (males), 42% ± 5% (females)

# Blood Study Guide Answers Anatomy

**Christian Drosten**



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