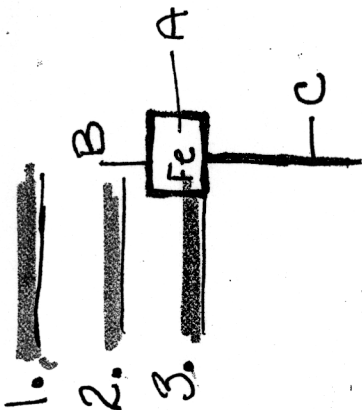


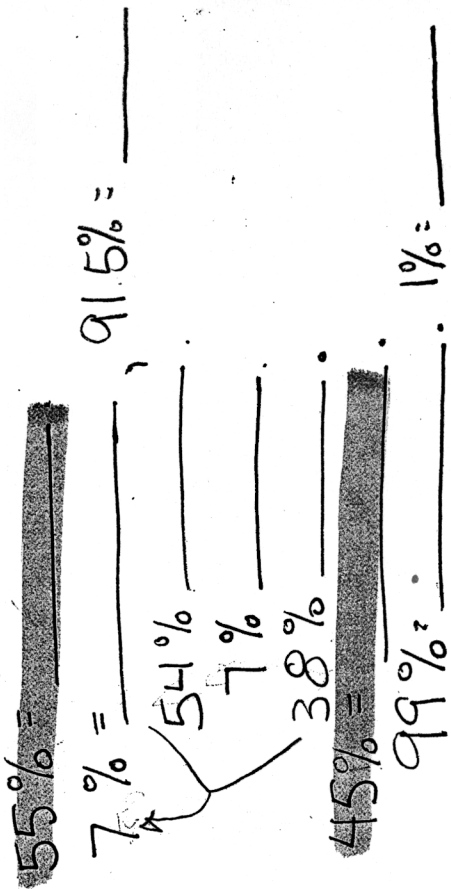
ERYTHROCYTE ANATOMY

5.



Components of Blood

3.



CHAPTER 19 Blood

EXTRACELLULAR FLUID

1. [Redacted] around the cell,
2. [Redacted] inside the vessels.

FUNCTIONS OF BLOOD

1. [Redacted]
2. [Redacted]
3. [Redacted]

1. Biconcave Disc

2. Lacks nucleus & mitochondria

3. pigment from hemoglobin
"4 CHAINS"

A. = IRON

B. HEME

C. GLOBIN

BLOOD PLASMA 55%

PLASMA PROTEINS 7% , Water = 91.5%

ALBUMIN 54%

FIBROGEN 7%

GLOBULINS 38%

~~1.5% OTHERS~~

FORMED ELEMENTS 45%

1. Erythrocytes - 99%

2. LEUKOCYTES

3. THROMBOCYTES 1%

CARDIOVASCULAR SYSTEM - THE BLOOD

CHAP 19

1. Interstitial
2. Blood plasma

1. Transportation of O_2 & CO_2
2. Regulation of body PH, Temp. & Water Content
3. Clotting mechanism and defense mechanism from WBC.

8. ANATOMY & PHYSIOLOGY

OF LEUKOCYTES

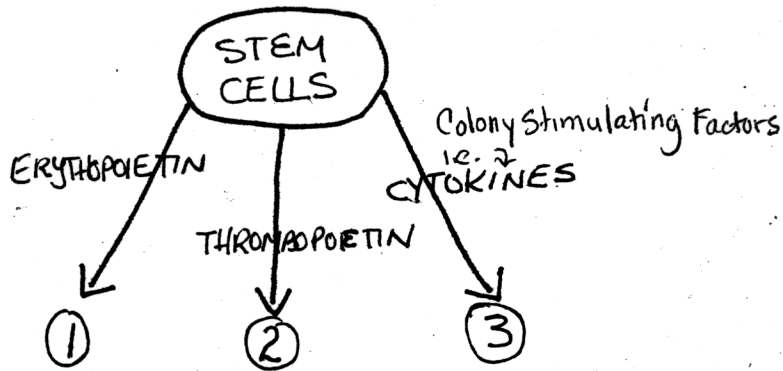
- 1.
- 2.
- 3.

9.

TYPES & FUNCTIONS

1. A. B. C.
2. A. B.

4. FORMATION of BLOOD CELLS



6. ERYTHROCYTE LIFE SPAN

1. LIFE
2. RECYCLED BY &
 - A. GLOBIN
 - B. HEME
3. FE (IRON)

7. PRODUCTION OF RBC "ERYTHROPOIESIS"

1. stimulus \Rightarrow
2. production site erythropoietin \Rightarrow
3. target site erythropoietin \Rightarrow
4. Action \Rightarrow

1. Granulocytes

a. Basophil - secretes histamine
& heparin.

b. Eosinophil - antihistamine effect,
kills parasitic worms.

c. Neutrophil - phagocytosis

2. Agranulocytes

a. monocyte - phagocytosis after
becoming a fixed or wandering macrophage.

b. lymphocyte - immune response

1. CONTAINS NUCLEUS

2. LARGER THAN AN ERYTHROCYTE

3. MOVE BY AMEBOID MOTION

1. ~~EATHROCYTE~~^{spell} Erythrocyte

2. THROMBOCYTE (Platelets)

3. LEUKOCYTE

1. 120 DAYS

2. SPLEEN & LIVER

A. GLOBIN - AMINO ACIDS

B. HEME - BILIRUBIN

3. FE - ATTACHED TO TRANSFERRIN
& STORED IN LIVER.

1. Hypoxia/Anemia

2. Kidney

3. Red Bone Marrow

4. Makes RBC.

1.
 - a. megakaryoblast
 - b. megakaryocyte
2. 5-9 days
3. blood clotting

1. Vascular spasm
2. Platelet plug formation
 - a. platelet adhesion
 - b. platelet release reaction
 - c. platelet aggregation
3. Coagulation
 - a. ~~prothrombin~~ activator = prothrombinase
 - b. thrombin
4. plasmin = Clot buster

| | ANTIGEN (MARKER) | ANTIBODY |
|------|------------------|----------|
| A = | A | B |
| B = | B | A |
| AB = | A+B | NONE |
| O = | NONE | A+B |