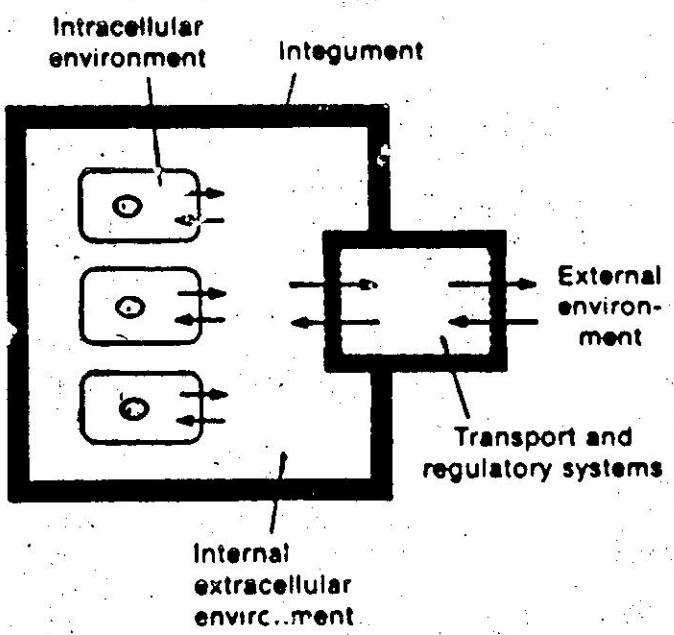
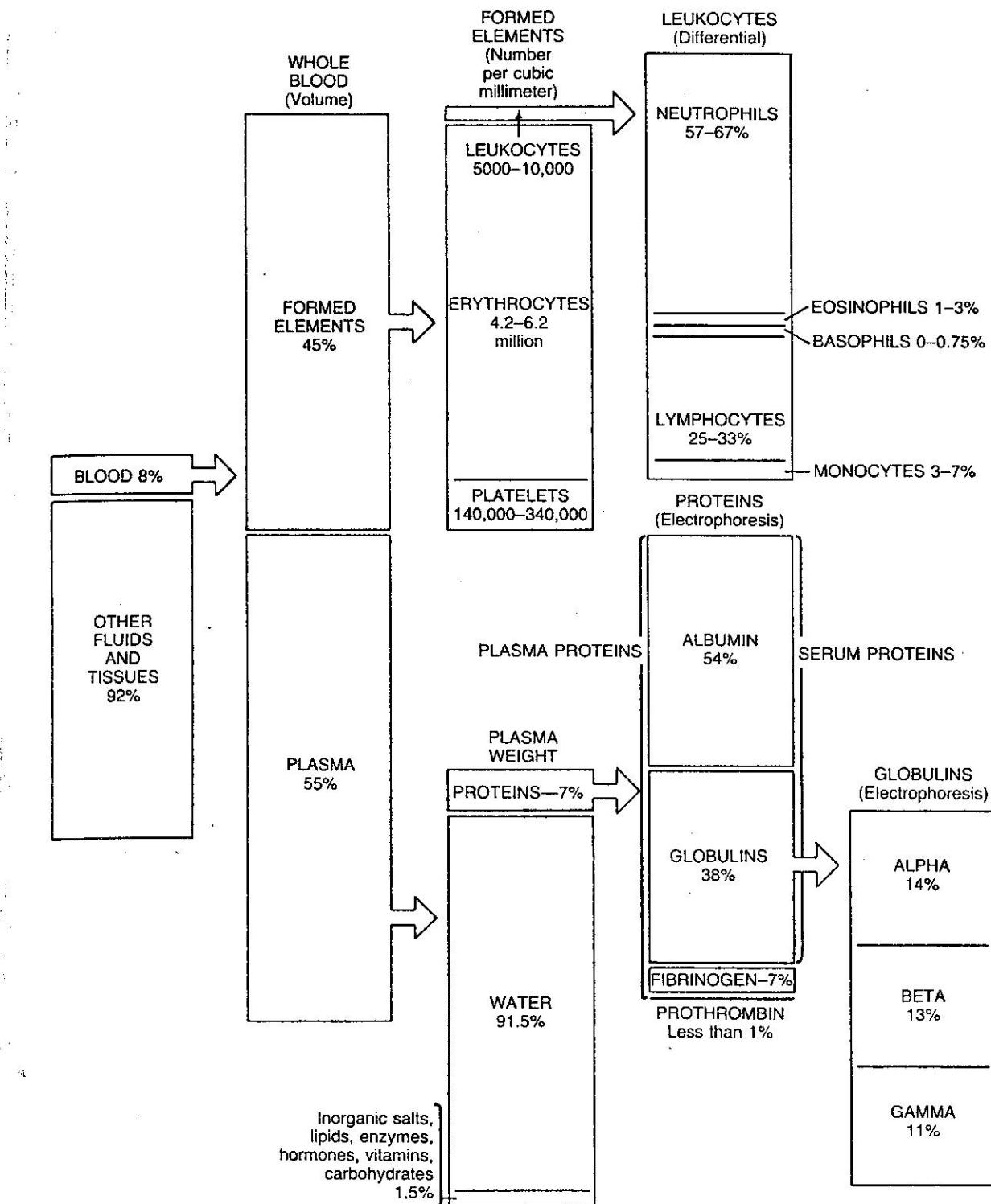


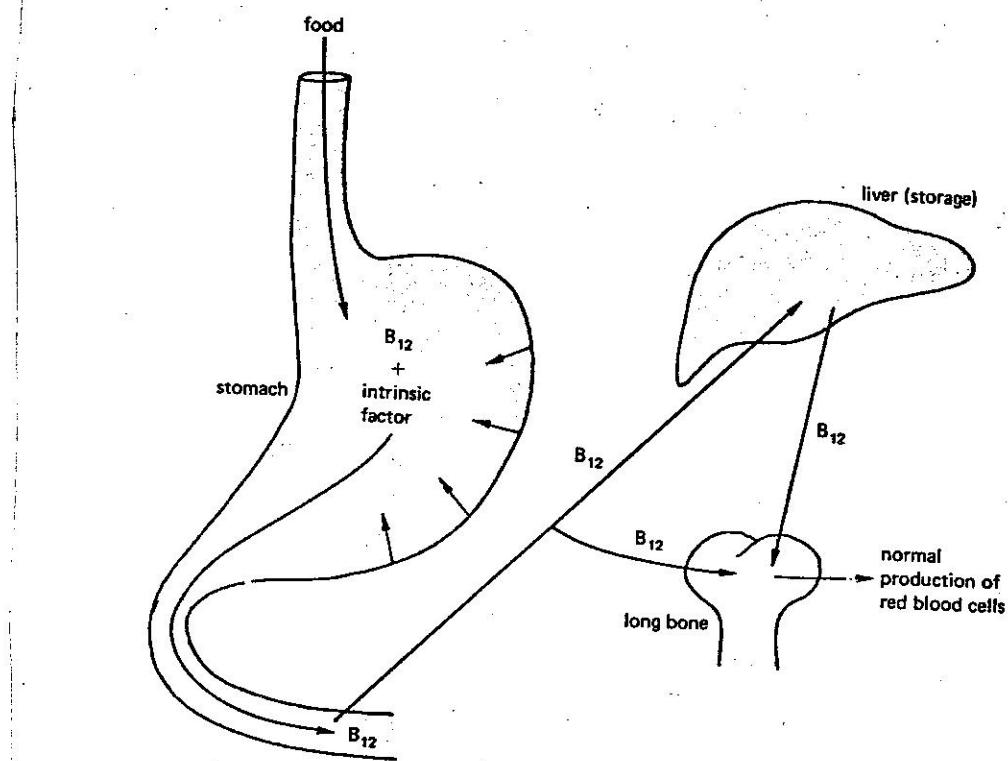
①



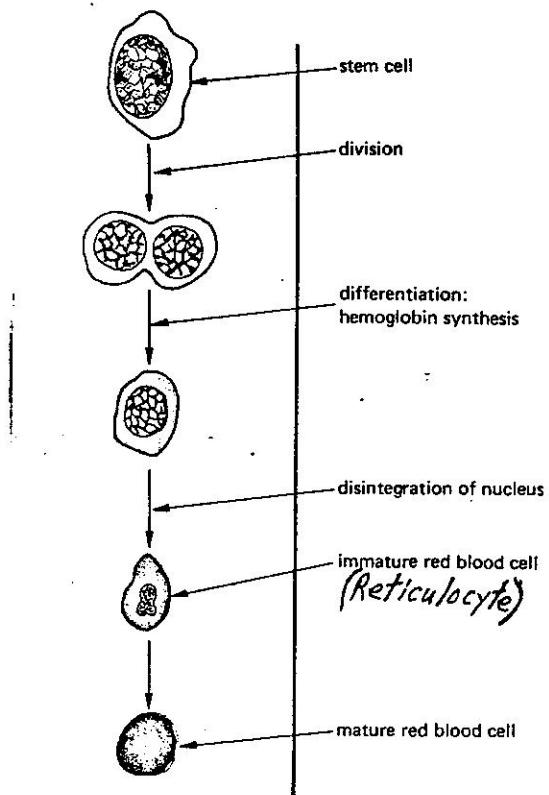
(2)

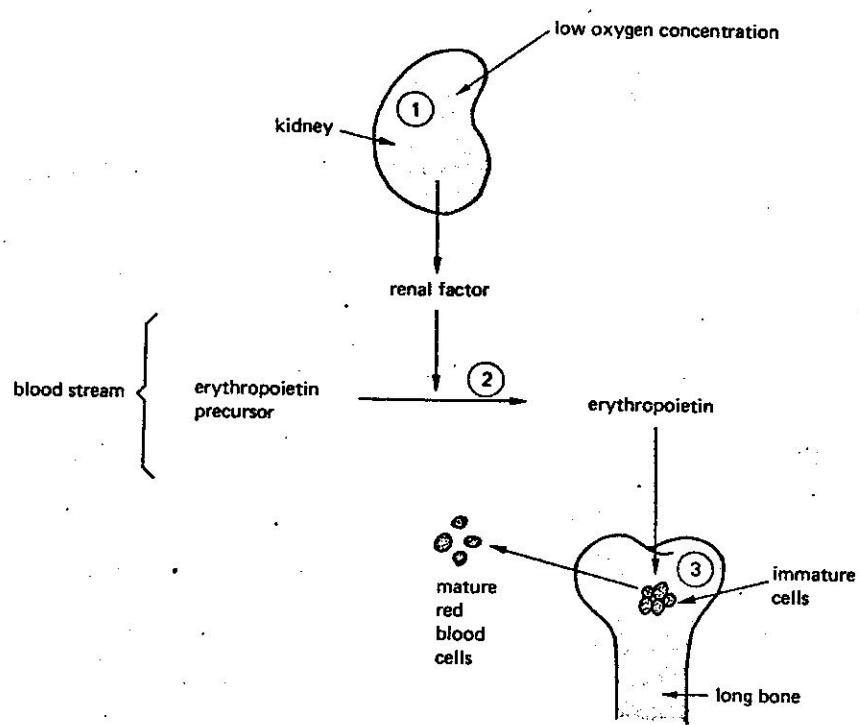
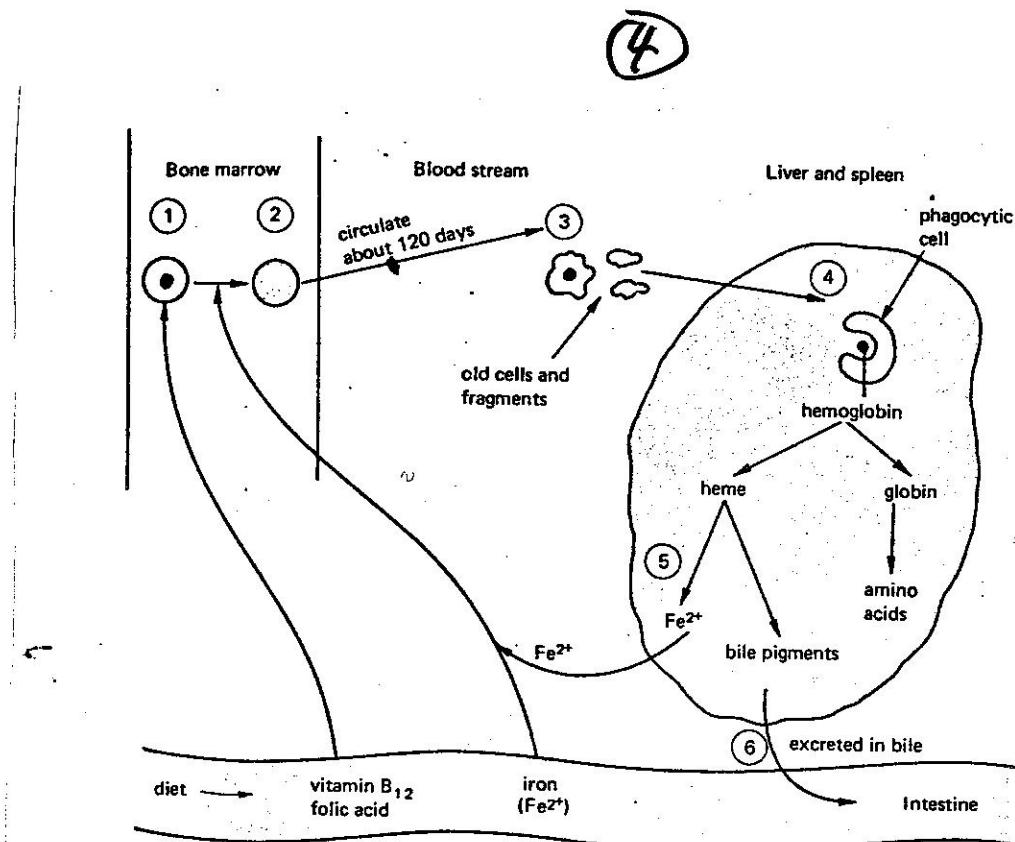


(3)



Bone marrow





(5)

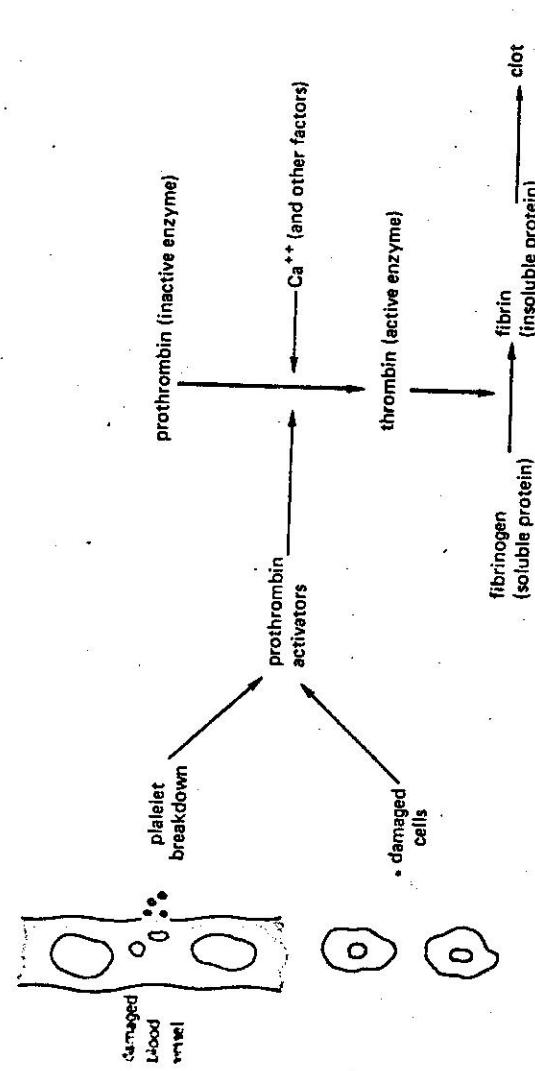
GRANULOCYTES

Diameter	Number/ mm ³	% Among Leukocytes	Pathologic Condition in Which Number is Increased
9-12 μ	3,000-6,750	60-65	Acute pus-forming infection
10-14 μ	100-360	2-4	Allergies and parasitic infections
8-10 μ	25-90	0.5-1.0	Chickenpox

AGRANULOCYTES

6-12 μ	1,000-2,700	20-35	Whooping cough
LYMPHOCYTES			
12-15 μ	150-170	3-8	Tuberculosis
MONOCYTES			

(6)



GENERALIZED, SIMPLIFIED SCHEME OF COAGULATION —

- (7)
- 1) Contact Factor + Platelets + $\frac{\text{Antihemophilic } + \text{PTA} *}{\text{Globulin VIII}}$ $\xrightarrow[\text{Factor X}]{\text{Chistmos}}$ PRODUCT-I
 - 2) Product-I + Proaccelerin $\frac{\text{Proconvertin VII}}{\text{Carr IV}}$ \rightarrow THROMBOPLASTIN III
 - 3) Prothrombin $\frac{\text{Thromboplastin}}{\text{Carr II}}$ \rightarrow THROMBIN
 - 4) Fibrinogen $\frac{\text{Thrombin}}{\text{I}}$ \rightarrow FIBRIN
- * = Plasma Thromboplastin Antecedent

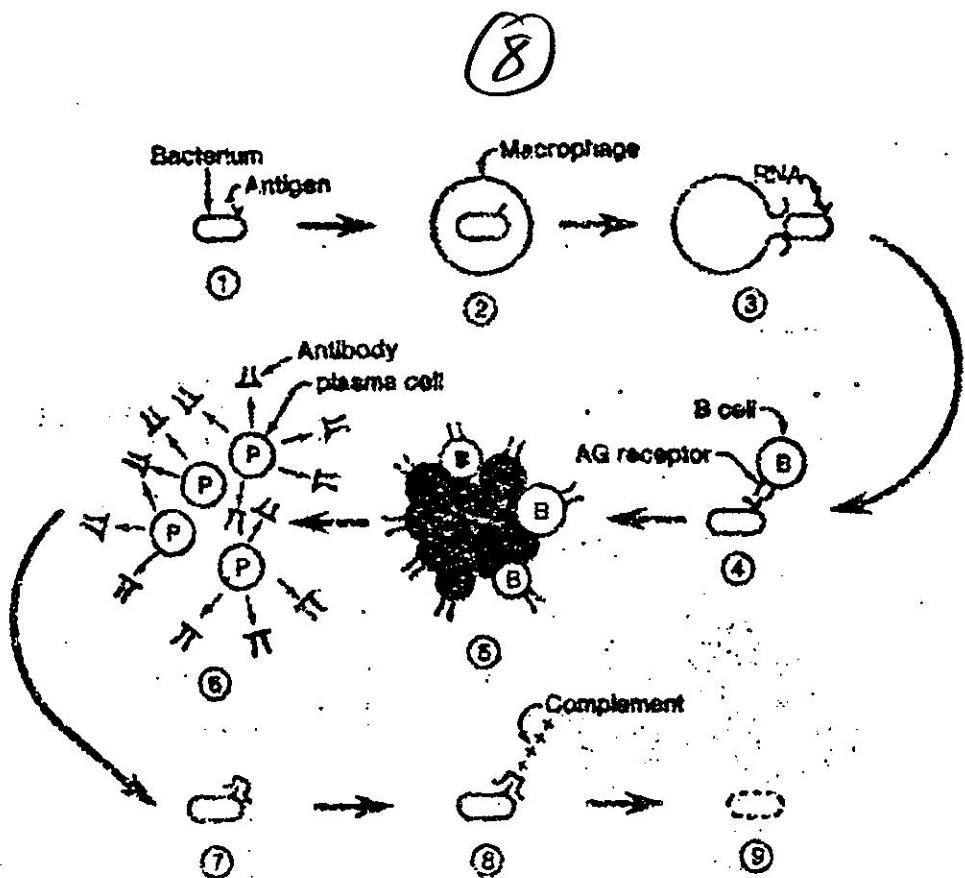
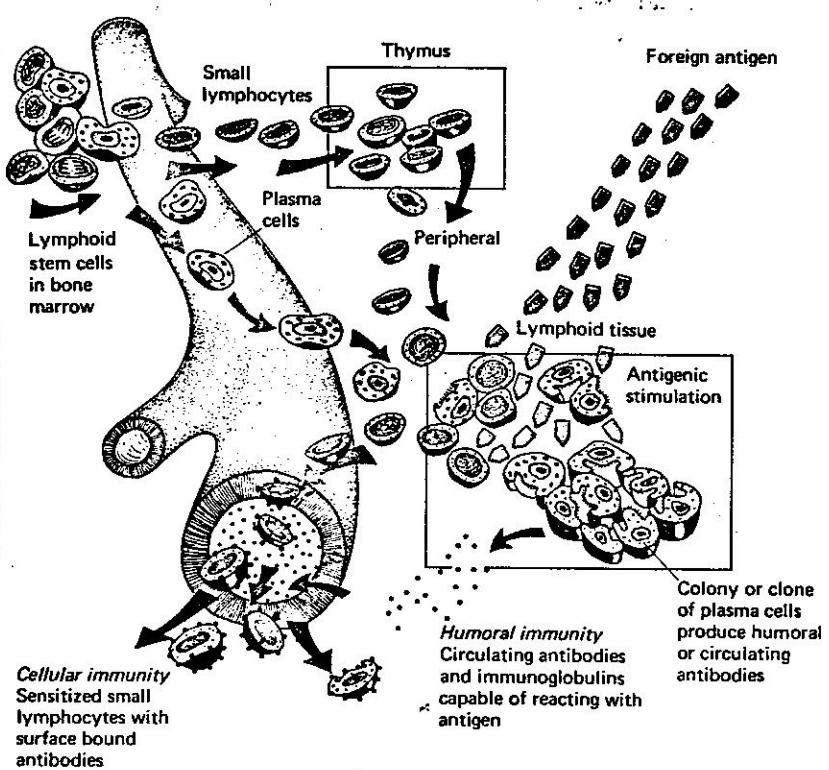
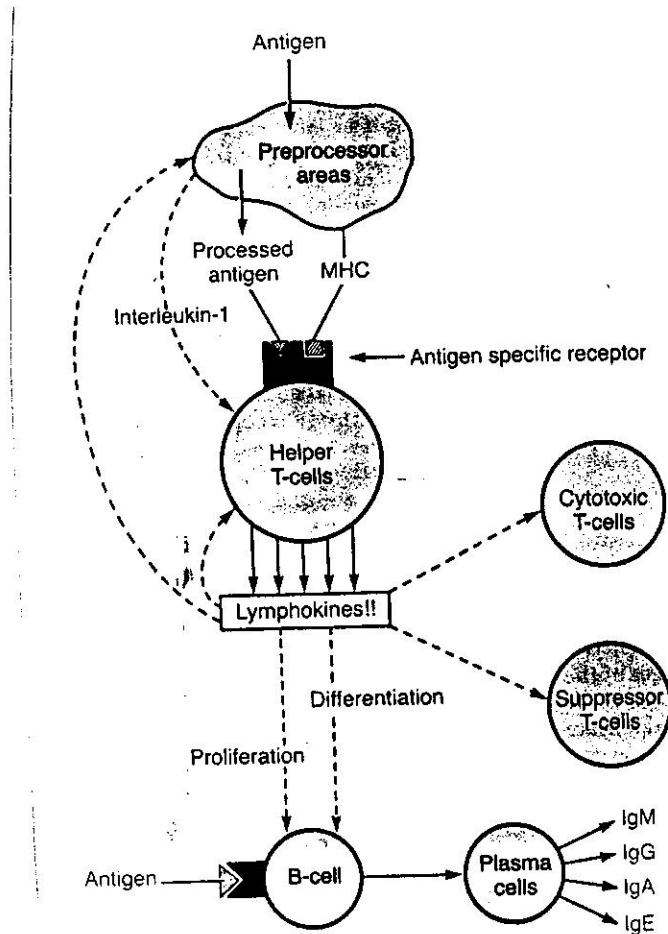


Fig. 1. Humoral immunity. 1: Bacterium with antigen; 2: macrophage processes antigen; 3: macrophage expels bacterium-antigen-RNA complex; 4: antigen-RNA complex combines with antigen receptor on B cell; 5: proliferation of B cells; 6: plasma cells produce antibodies; 7: antibodies combine with bacterium antigen free in circulation; 8: antigen-antibody complex induces complement fixation; 9: lysed bacterium.

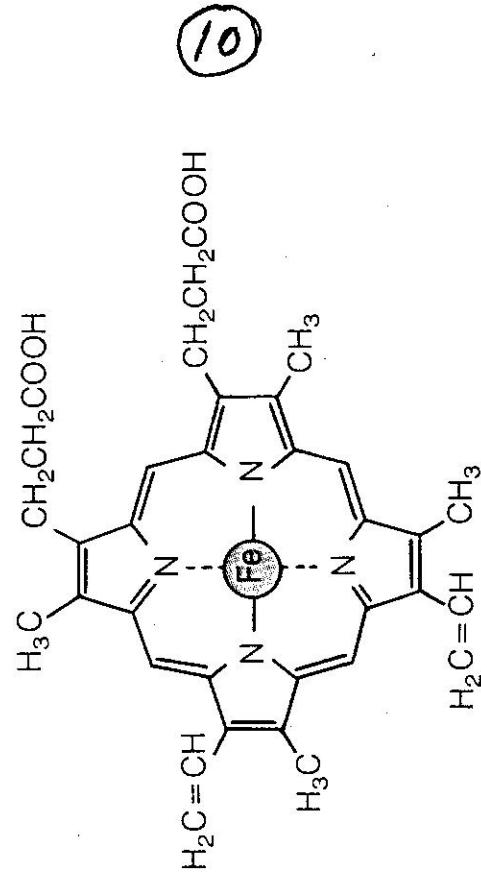
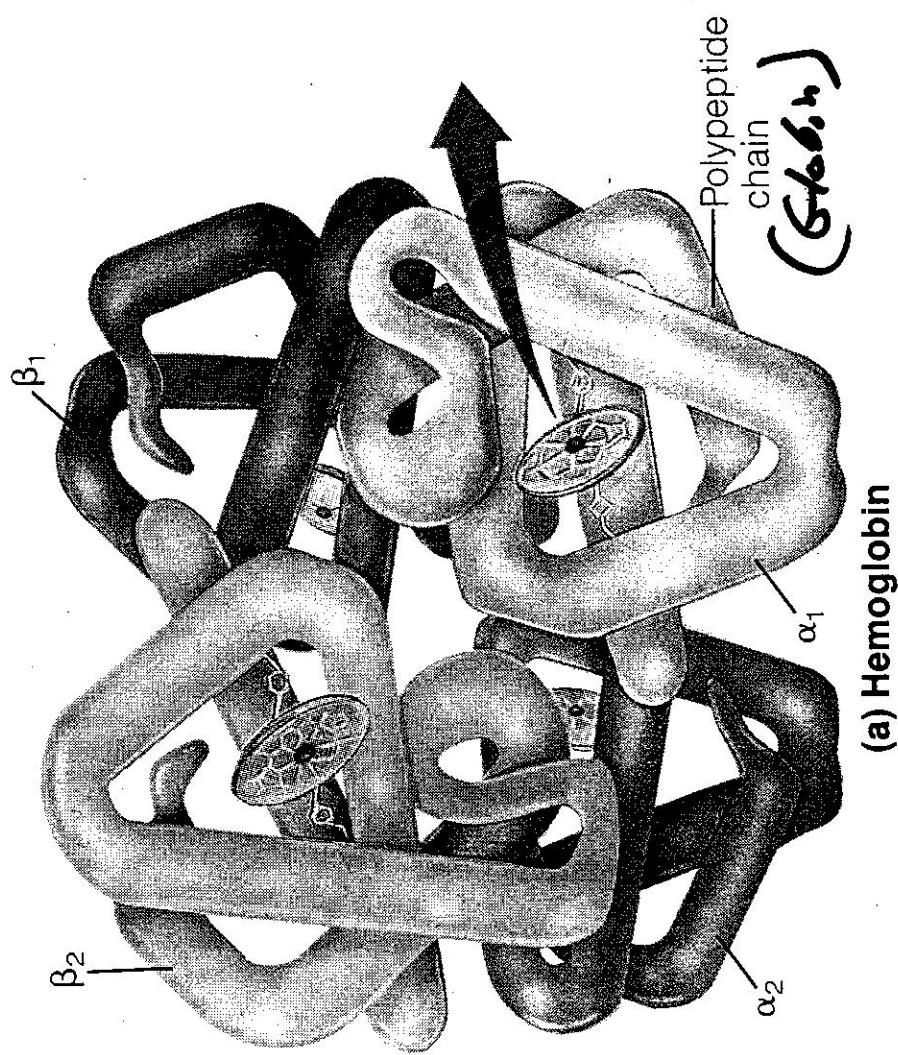


(9)

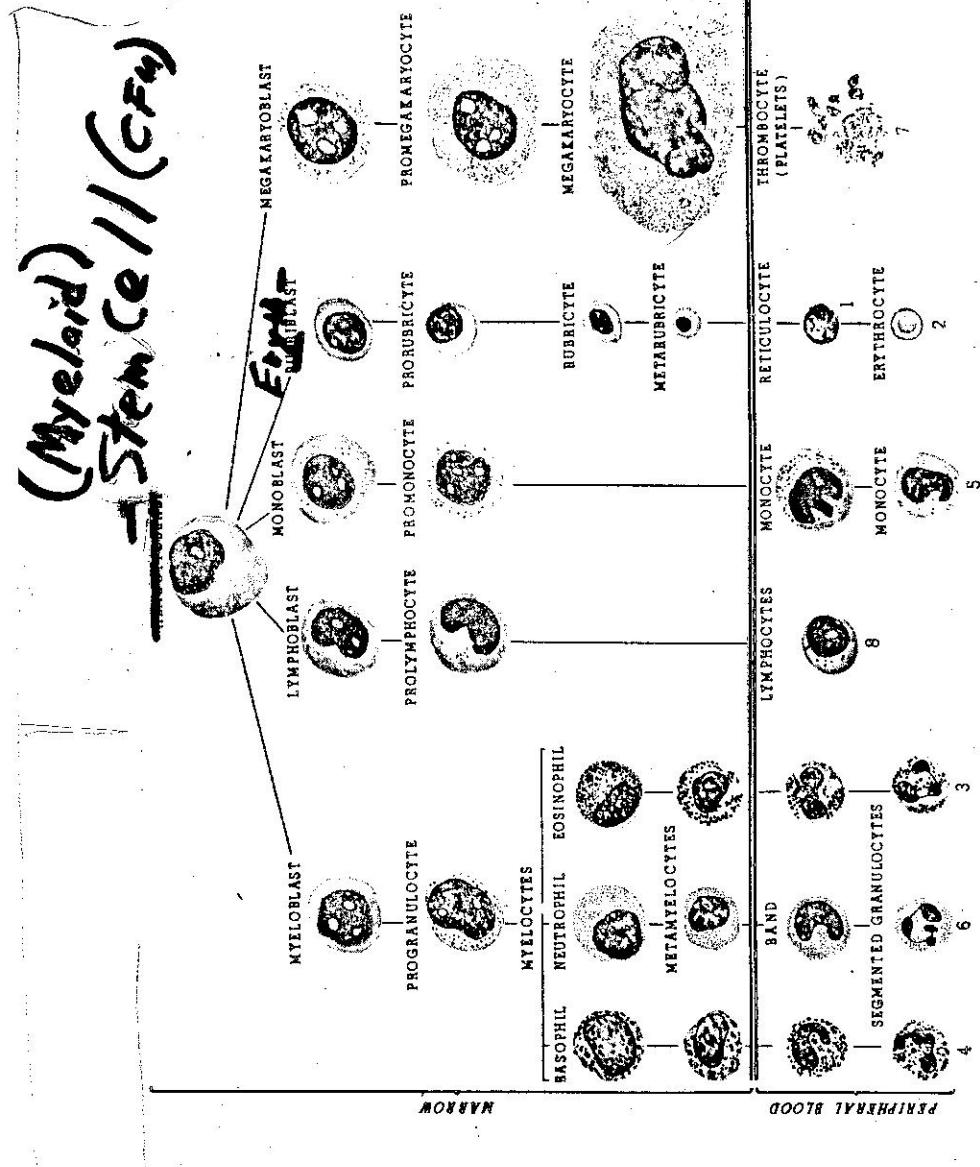


Interleukin-2
 Interleukin-3
 Interleukin-4
 Interleukin-5
 Interleukin-6
 Granulocyte-monocyte colony stimulating factor
 Interferon- γ

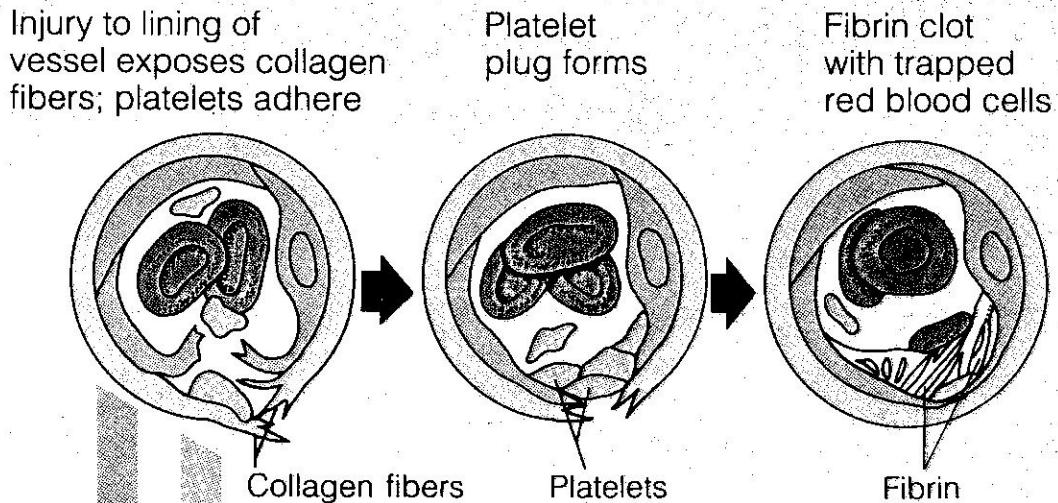
Structure of hemoglobin



(11)



Events of platelet plug formation and blood clotting



Platelets release chemicals that make nearby platelets sticky

PF_3 from platelets and thromboplastin + from damaged cells Calcium and other clotting factors in blood plasma

Coagulation

