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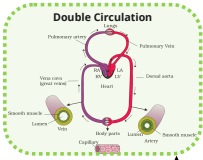
Class : 11th Biology
Chapter- 18 : Body Fluids and Circulation



- Blood
  - Plasma
    - Fibrinogen
    - Globulin
    - Albumin
  - Formated Elements
    - Platelets
    - RBC
    - WBC
      - Granulocytes
        - Neutrophils
        - Eosinophils
        - Basophils
      - Agranulocytes
        - Lymphocytes
        - Monocytes

Disorders
- High B.P
- Coronary artery disease
- Angina
- Heart failure

ABO grouping

Blood Group	Antigens on RBCs	Antibodies in Plasma	Donor's Group
A	A	anti-B	A, O
B	B	anti-A	B, O
AB	A, B	nil	AB, A, B, O
O	nil	anti-A, B	O

Blood Groups

Erythroblastosis foetalis
- Rh + ve
- Rh - ve

Body Fluids and Circulation

Regulation of cardiac Activity
- ANS
  - Sympathetic nerve
  - Parasympathetic nerve
- Adrenal medullary hormone

Blood vessels

Histology
- Tunica interna
- Tunica media
- Tunica externa

Types
- Arteries
- Vein
- Capillaries

Human Heart

Heart Sounds
- Lubb
- Dub

Heart valves
- Tricuspid valve
- Bicuspid valve
- Semilunar valve

Types
- Myogenic heart
- Neurogenic

Histology
- Endocardium
- Myocardium
- Pericardium

Cardiac Cycle
- Atrial systole
- Ventricular systole
- Cardiac diastole

Circulatory pathways
- Closed: E.g. Annelids, Echinoderms, Vertebrates
- Open: E.g. Arthropods, Molluscs

Coagulation of blood
When an injury is caused to a blood vessel, bleeding starts which is stopped by a process called blood clotting.

Evolution of heart
- Fishes- 2 chambered heart
- Amphibians- 3 chambered heart
- Reptiles (except crocodiles)- 3 chambered heart
- Crocodiles, Birds and Mammals4 chambered heart.

Lymph (Tissue Fluid)
It is a colourless fluid containing specialized lymphocytes that provide immune response to body.

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