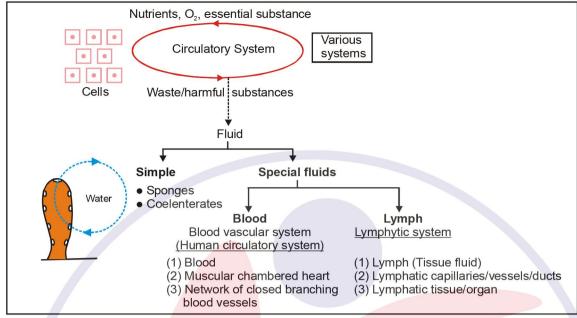
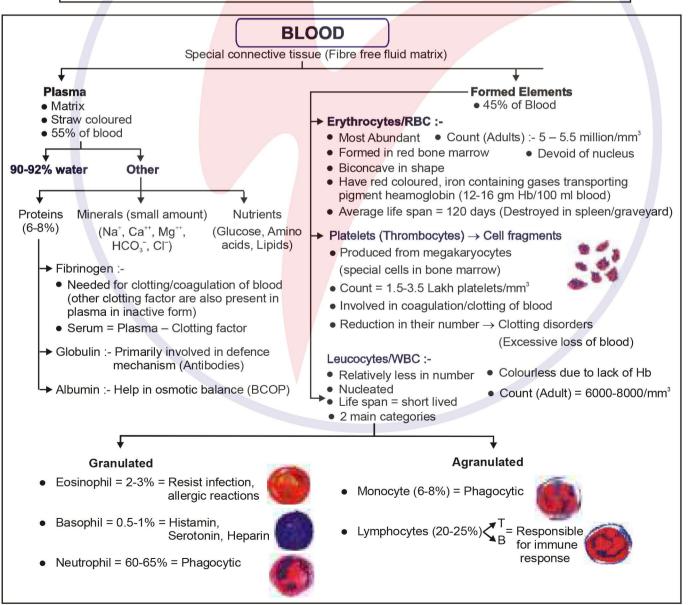
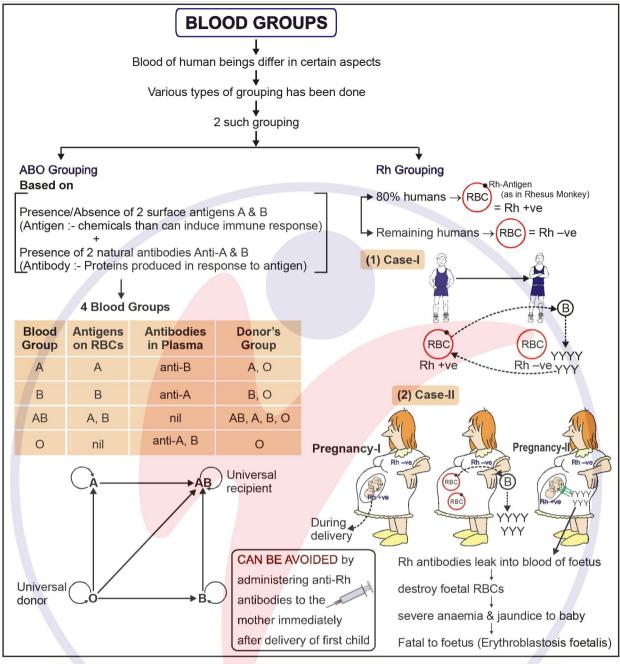
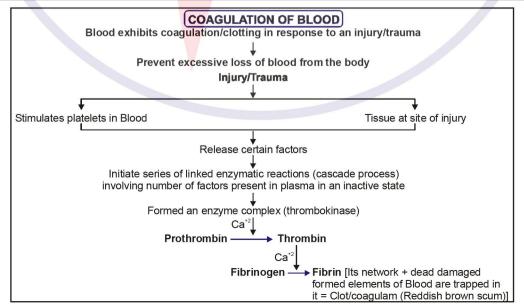
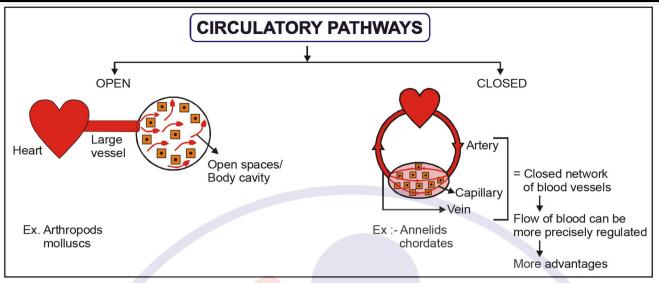
BODY FLUIDS AND CIRCULATION

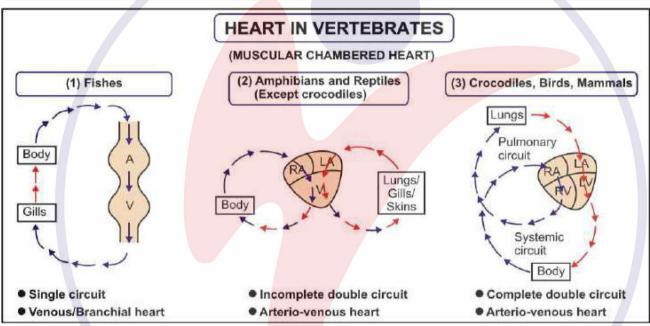


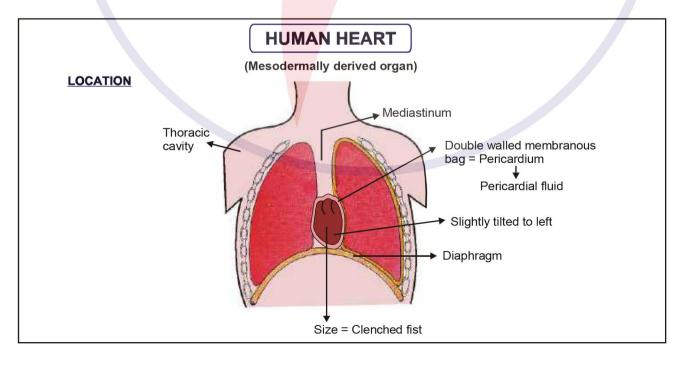


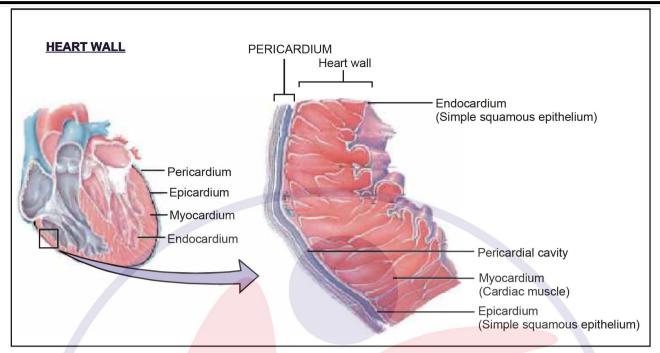


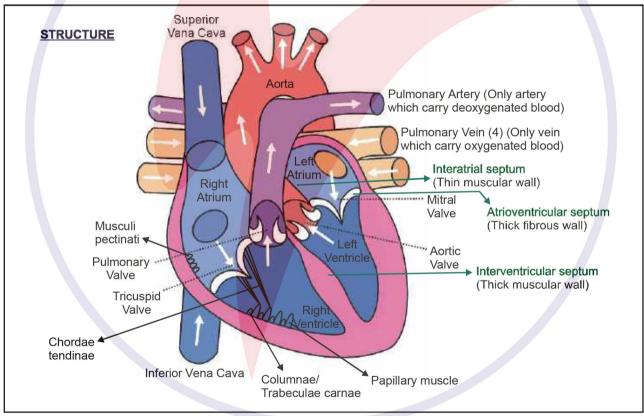




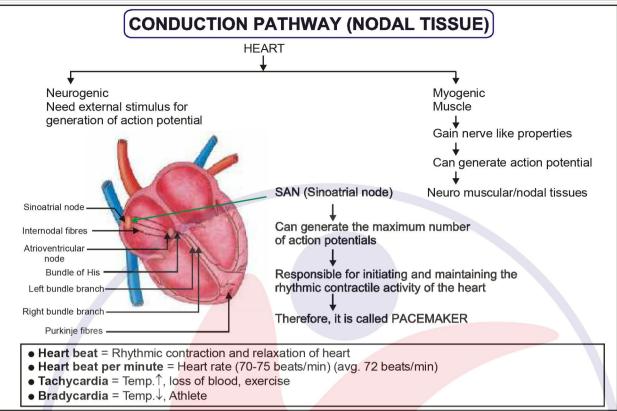


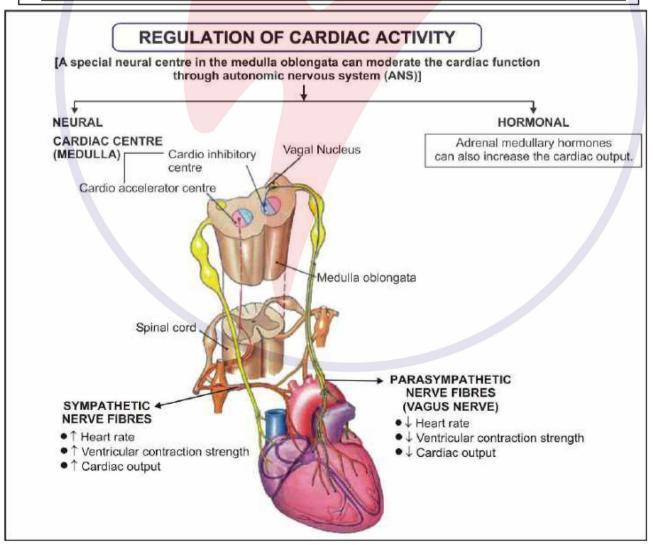


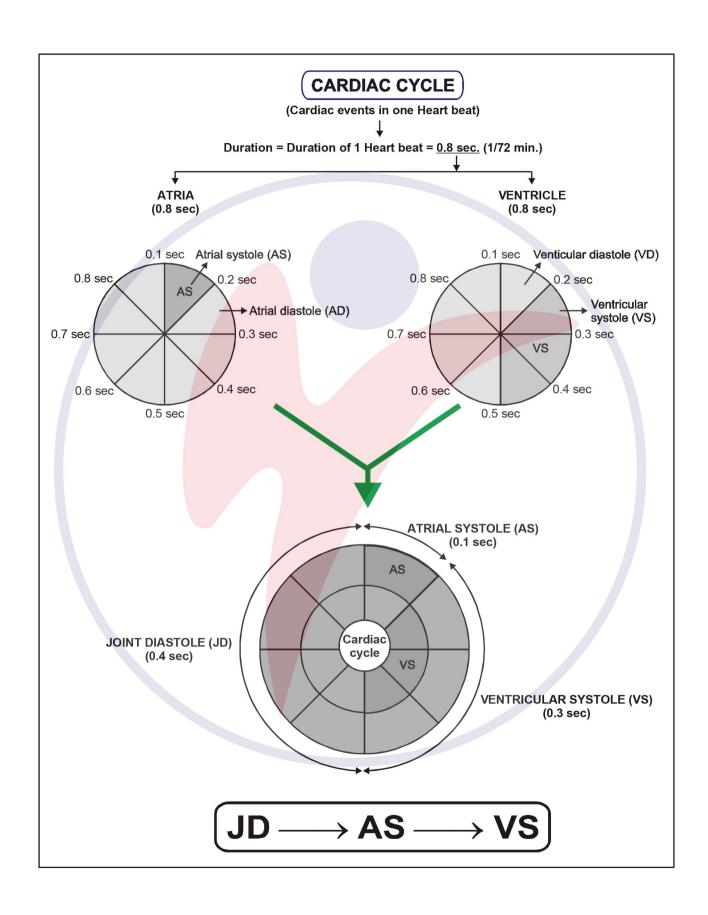


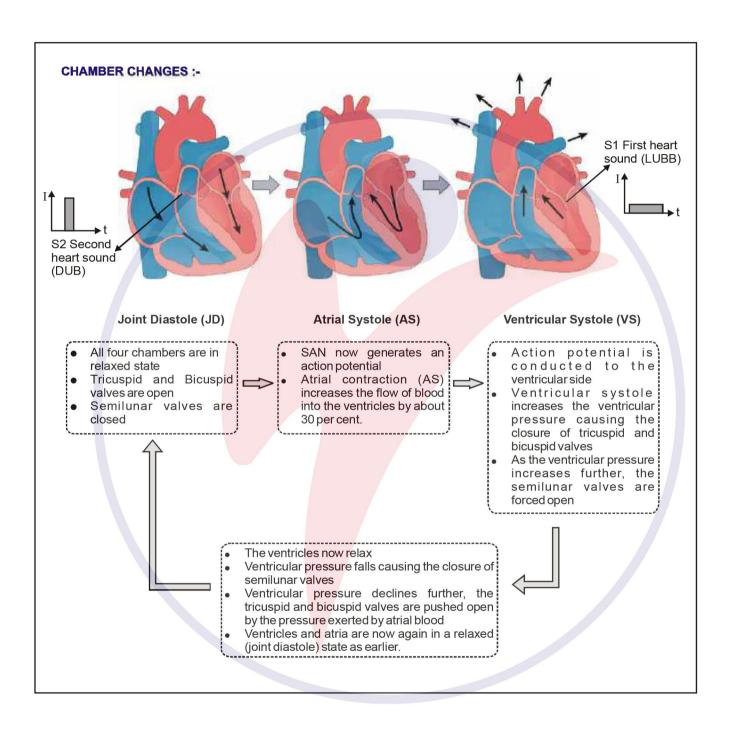


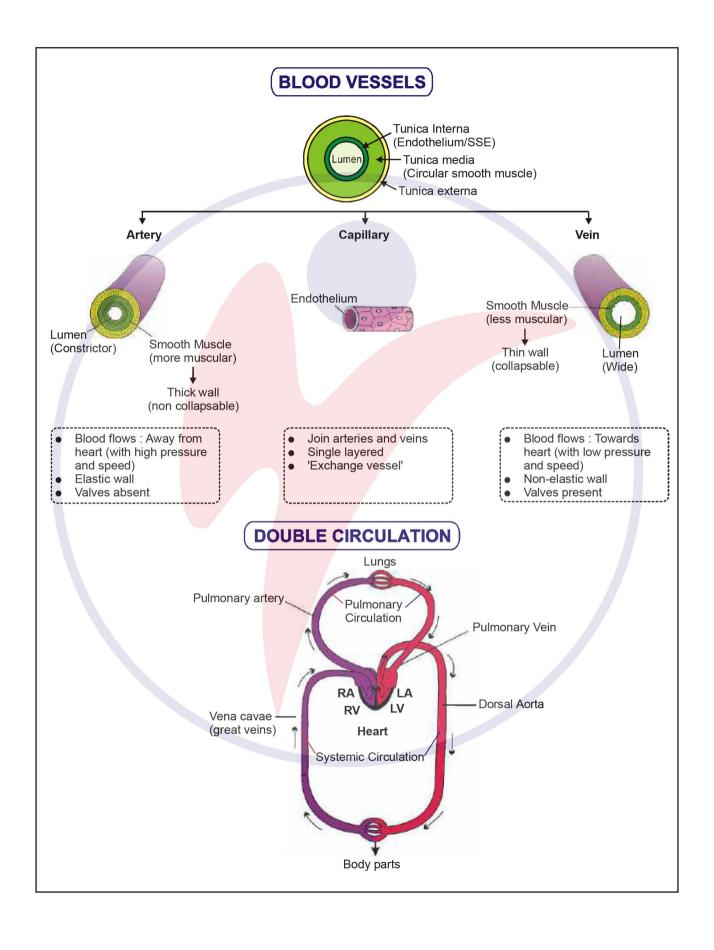
- Total number of valves in adult human heart = 4
- Valves prevent the backflow of blood i.e. from ventricles to atria and from arteries to ventricles.
- Chordae tendinae prevent the reverse opening of AV valves during ventricular systole.

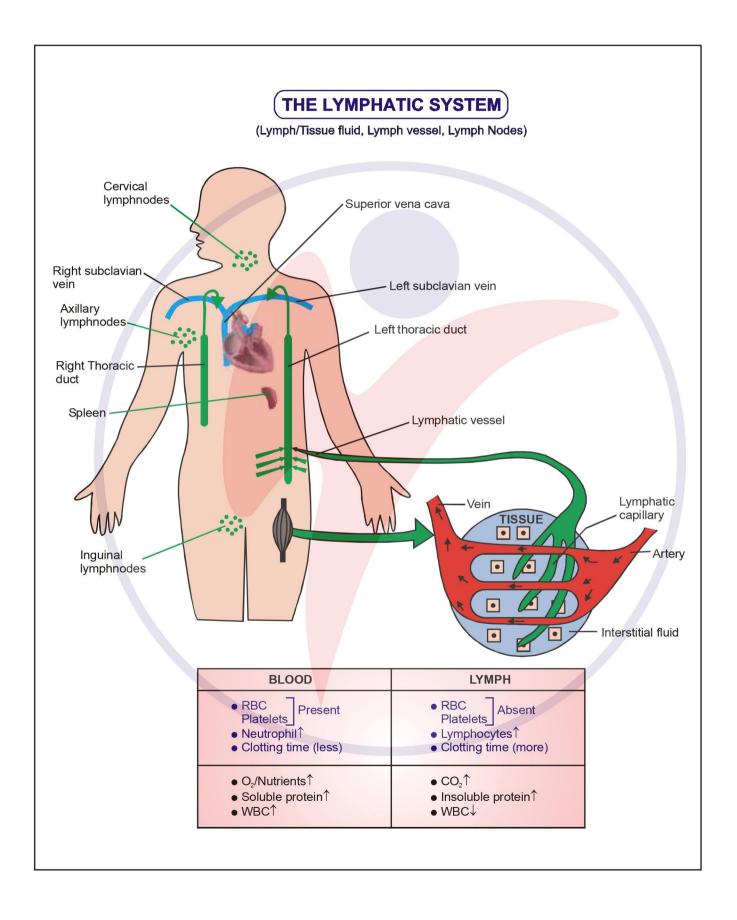






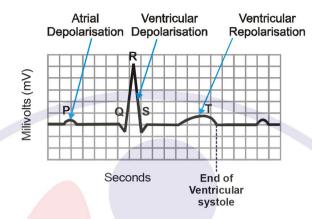






ELECTROCARDIOGRAPH (ECG)

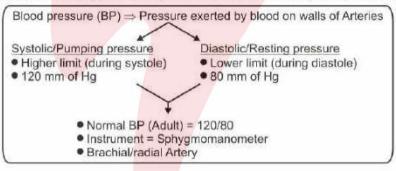
(Graphical re-presentation of electrical activity of heart)



Heart rate can be determined by counting the number of QRS complexes that occur in a given time period.

DISORDERS OF CIRCULATORY SYSTEM

1. High blood pressure (Hypertension) :- Blood pressure that is higher than normal i.e. (140/90)



2. Coronary artery diseases (CAD) :- Atherosclerosis of coronary artery

| Atherosclerosis | Arteriosclerosis |
|---|---|
| Cholesterol calcium fat fibrous tissues deposit in lumen Narrowing of artery | Ca ^o deposition in walls Hardening of artery |

- Angina pectoris :- Acute chest pain → When no enough oxygen is reaching the heart muscle. (More common among the middle aged and elderly)
- Myocardial infarction/Heart attack: Sudden death of heart muscle → Due to inadequate blood supply.
- 5. Cardiac arrest :- Heart stop beating
- 6. Heart failure :- Heart not pumping blood effectively → To meet the needs of the body