

Tender Heart High School, Chd
Teacher: Nimrita

Class-VI

L-6 'The Circulatory System'

Subject: Biology

Date: 18.11.24

Good Morning Children! Today,
we will study about working
of Human Heart. It is being
submitted to you on 18 November, 2024

Heart - The pumping organ.

Human heart is a muscular organ with the size of a clenched fist. It is located in the chest cavity between the two lungs. Cardiac muscles of the heart help it to relax and contract throughout the lifespan of a person. Heart has four chambers. The upper two chambers are auricles and lower two chambers are ventricles.

Blood circulation:

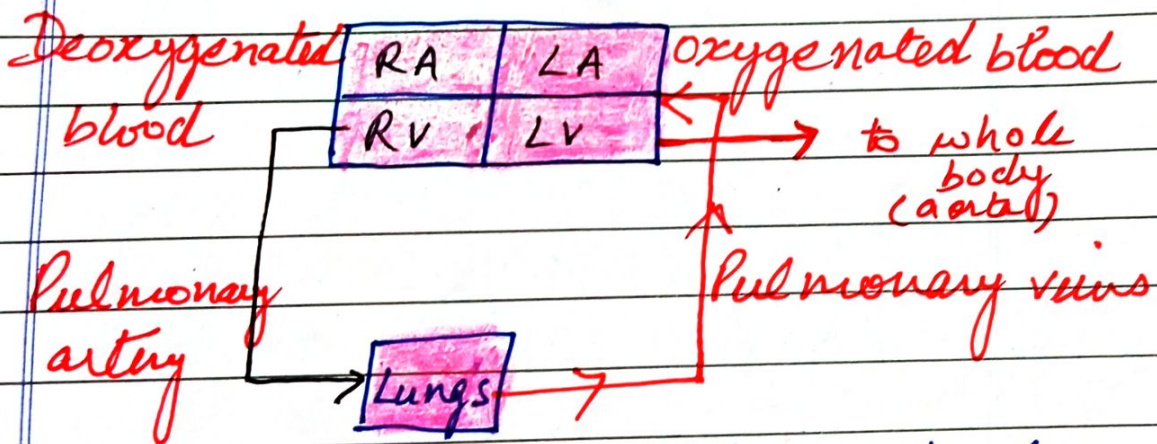
1.) **Pulmonary circulation:** It transports blood only between heart and the lungs.

2.) **Systemic circulation:** It transports blood between the heart and the entire body.

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Working of human heart:

- RA (Right auricle) receives deoxygenated blood from different parts of the body and send it to RV (Right ventricle).
- Deoxygenated blood from R.V is carried to lungs via pulmonary artery.



- Oxygenated blood from the lungs returns to L.A via pulmonary vein.
- Pure blood from L.A is pushed into L.V. and further pumped via aorta to whole body.
- Impure blood collected by vena cavae is poured into R.A.

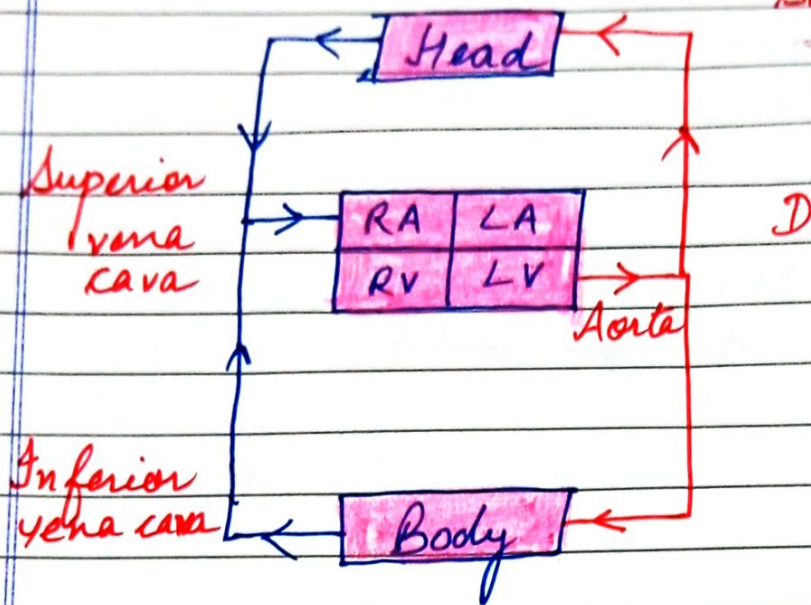
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Systemic Circulation

Important terms:

- Heart beat: A distinct sound is produced when blood passes through the valves and these close immediately. It is 72 times per minute.
- Pulse: When the heart beats, it pumps blood into the arteries. This blood flows with a jerk which can be felt by holding the wrist at the right position.
- Blood pressure: It is the pressure exerted by the blood on the walls of the arteries. It is

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measured by sphygmomanometer.

Blood groups:-

- Karl Landsteiner discovered the concept of blood groups in 1900.
- 4 types of blood groups
 - 1 A
 - 2 B
 - 3 AB
 - 4 O
- AB blood group can receive blood from all types (Universal recipient)
- A person with O blood group can give blood to a person of any blood type (Universal donor)
- We can keep our heart healthy by eating healthy food and by doing regular exercise. I am ending today's lesson.
Thank you.