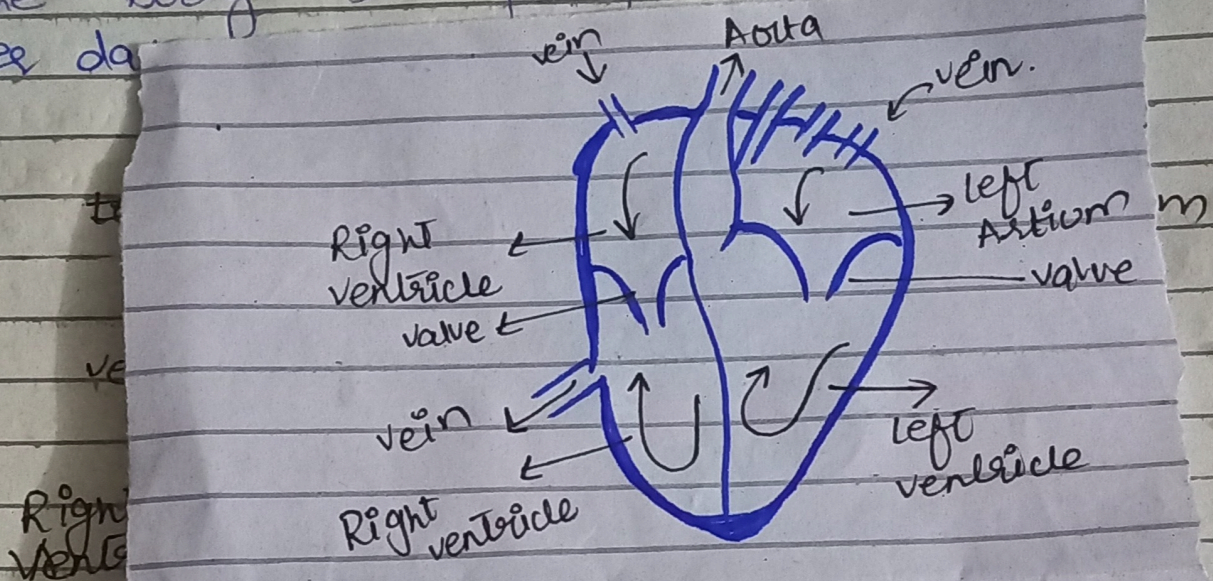


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Batch-42

Define blood circulation? How the heart is adapted to keep blood flowing in the double circulation? (2021)

Human heart is the fist-sized muscular organ that pumps blood all over the body. It pumps blood 2000 gallons per day.



BLOOD CIRCULATION:

The blood circulation system delivers all the oxygen and nutrients to the cells of body.

Main part of this system

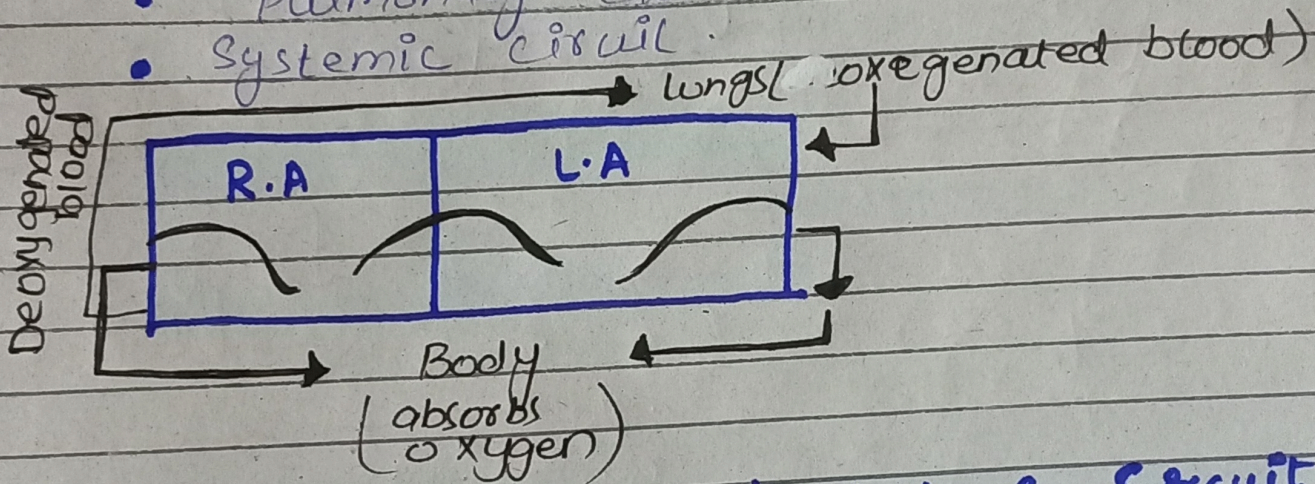
- ↳ heart
- ↳ arteries
- ↳ veins
- ↳ Capillaries.

DOUBLE CIRCULATION:

Double circulation means when the blood passes through the heart twice. → The heart act as two pumps. Right side of the heart pumps deoxygenated blood. Left side of the heart pumps oxygenated blood.

Double circulation involves two circuits.

- Pulmonary circuit
- Systemic circuit



Pulmonary Circuit.

→ heart → lungs — heart

In pulmonary circuit deoxygenated blood passes through the lungs and back to the heart.

→ Deoxygenated blood pumped at the Right ventricle leaves the heart in Pulmonary artery and

Systemic Circuit.

→ heart → body — heart

In systemic circuit oxygenated blood pass through all over the body and back to the heart.

Begins at the left ventricle where the blood in left ventricle leaves the blood in Aorta

its delivered to the lungs for deoxygenated

→ Right ventricle wall is not thicker

→ pulmonary blood circuit have shortest distance from heart

so its carried away in large aorta.

→ Left ventricle wall is thicker

→ longest distance from heart.