

Function

•TO PROVIDE OXYGEN AND NUTRIENTS TO AND REMOVE WASTE FROM THE ENTIRE BODY BY PUMPING BLOOD TO EACH TISSUE AND ORGAN

Main Organs

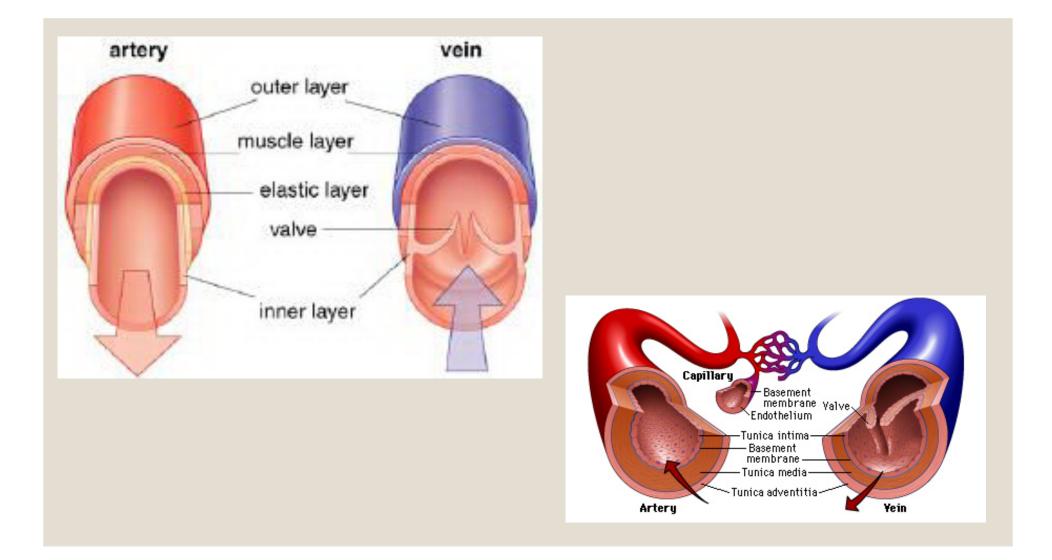
• HEART

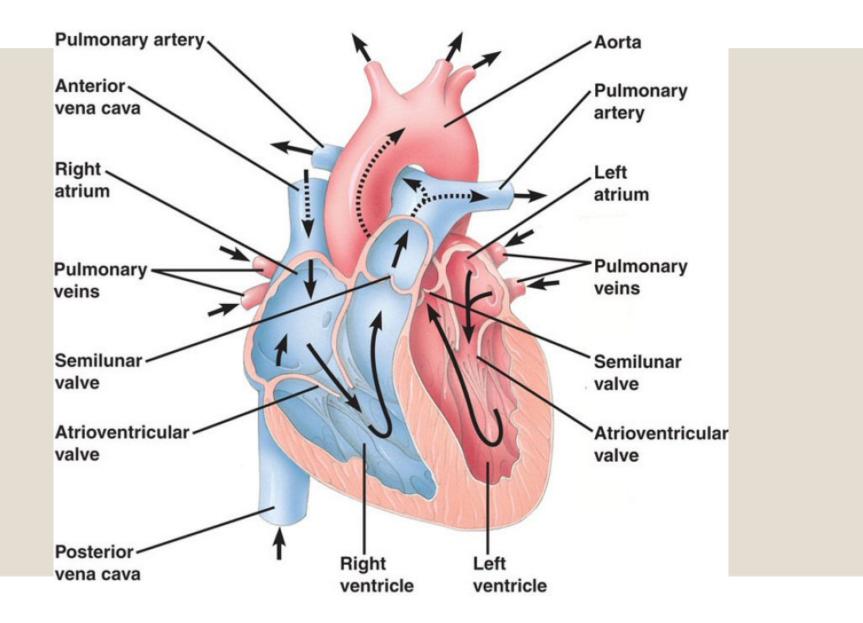
• VEINS

- has a fibrous sac that it sits in filled with thin, collapsible tubes surrounded by slippery fluid - made up of thick thin layers of muscle muscle
 - has electrical nerve "nodes" and multiple chambers
- embedded in between muscles and other tissues - take deoxygenated blood back to heart
 - have valves to prevent backflow

ARTERIES

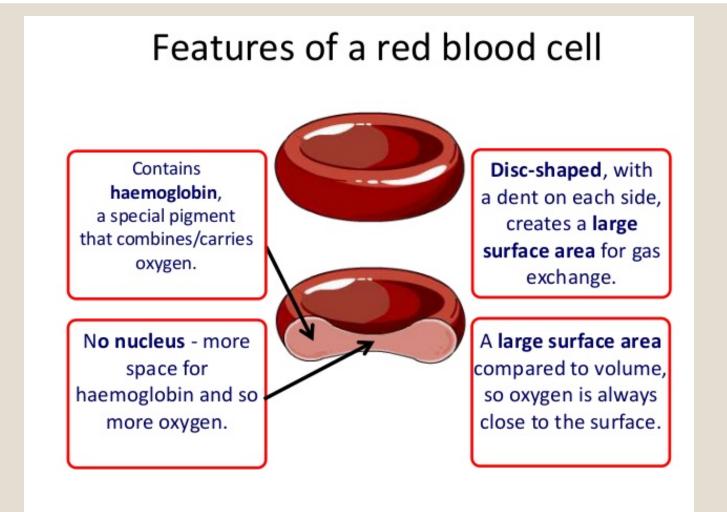
- muscular tubes
 - take oxygenated blood to the body CAPILLARIES
 - - extremely thin walls
 - connect arteries and veins











Comparative Anatomy

Root Hair Cell

Structure:

- Large surface area to absorb lots of water
- Thin cell wall to allow water to pass through easily
- Doesn't contain any chloroplasts unlike all other plant cells

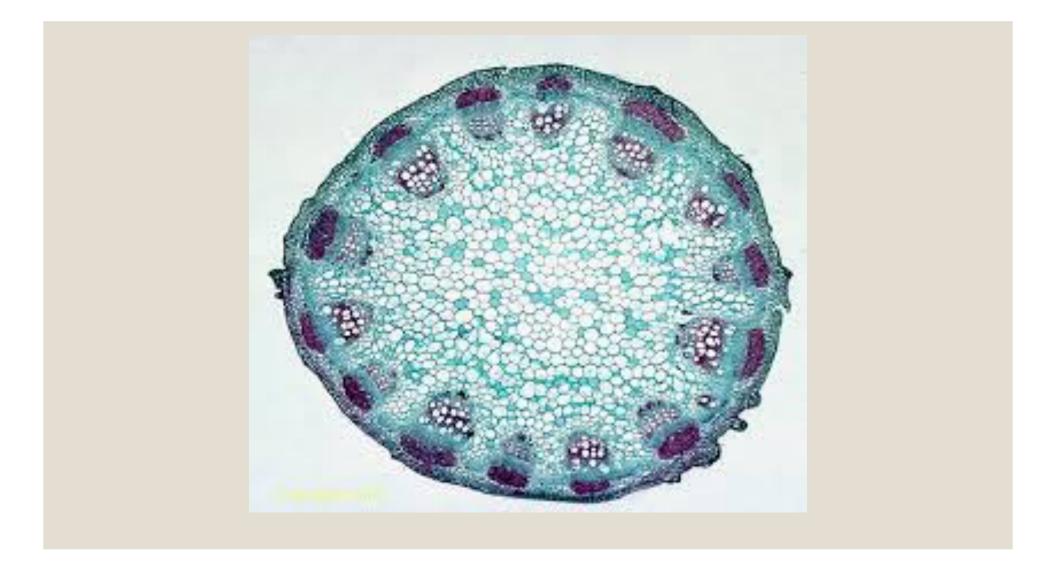
Function:

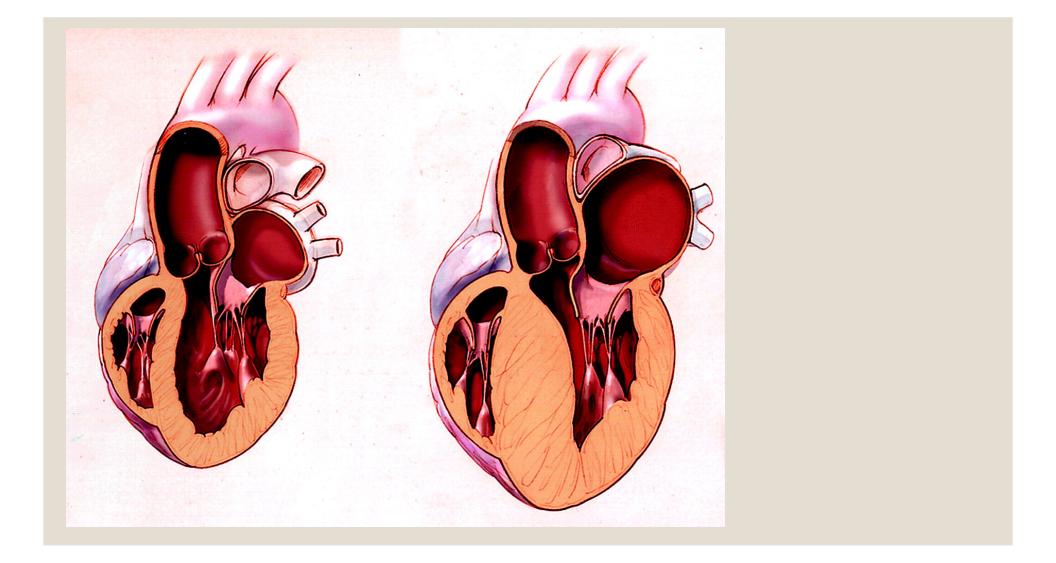
 Absorbs minerals and water from soil

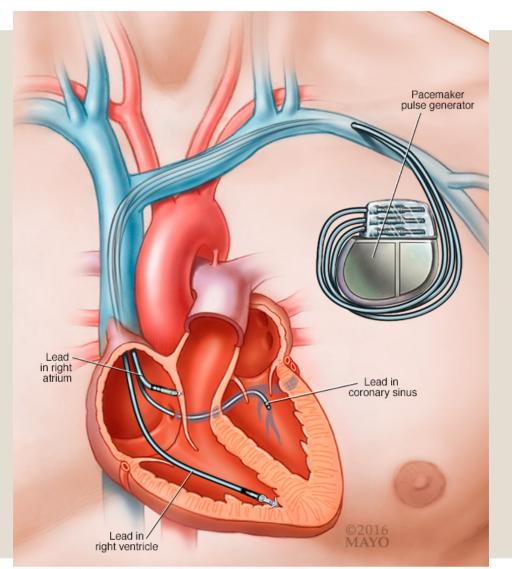
Vascular bundles: xylem & phloem

Xylem transports water & dissolved minerals from roots to leaves.

Phloem transports food (sugar) made in leaves to all other parts of the plant.







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