## CHAPTER SUMMARY

- Circulatory system is made up of three principal components: heart, blood vessels and blood.
- The main purpose of circulation is to transport and distribute oxygen and nutr: organism.
- Cardiac circulation in anir circulation which requires the heart like in fishes; a blood passes by the heart t systemic circuit.
- The heart of vertebrates va fishes, three chambers in a chambers in birds and mamma
- The heart has three layers myocardium as the thickest heart is to pump blood three



Contraction of the heart is initiated by the sinoatrial node that spreads to the AV node going to the bundle of His and Purkinjie fibers in mammals.

- There are three kinds of blood vessels, arteries, veins and capillaries.
- Arteries have a smaller lumen with highly have a larger lumen with less elastic wall are minute blood vessels that is the site gases and nutrients.
- Blood is around 4.5 liters in female human humans.
- Blood is made up of plasma and formed eler
- Plasma is a combination of water, ions, p: organic substances needed by the body cell
- Formed elements of the blood is 45% and comblood cells, white blood cells and platel
- In plants, the vascular tissue is response transport of nutrients and water throughout the forces of pressure gradient, cohesion
- [] Xylem conducts water and phloem conducts in water throughout the plant body.