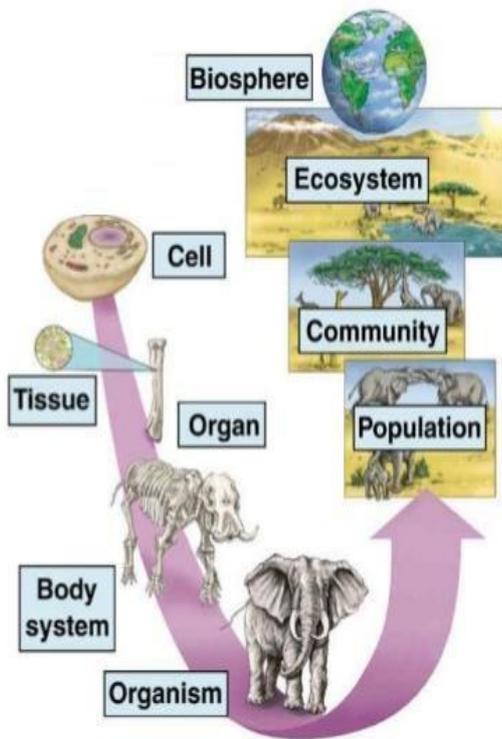


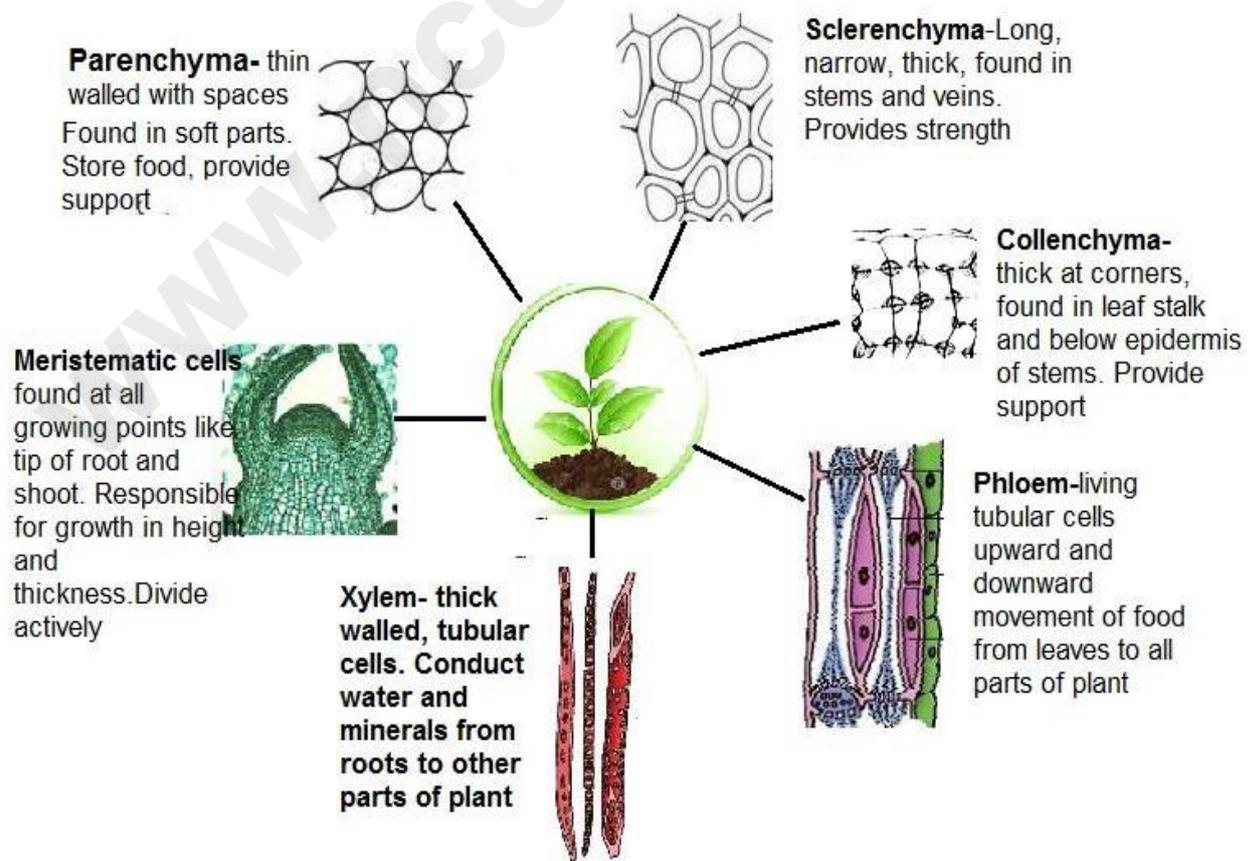
ICSE BIOLOGY CLASS 7
ORGANIZATION IN LIVING THINGS

HIERARCHY OF ORGANIZATION

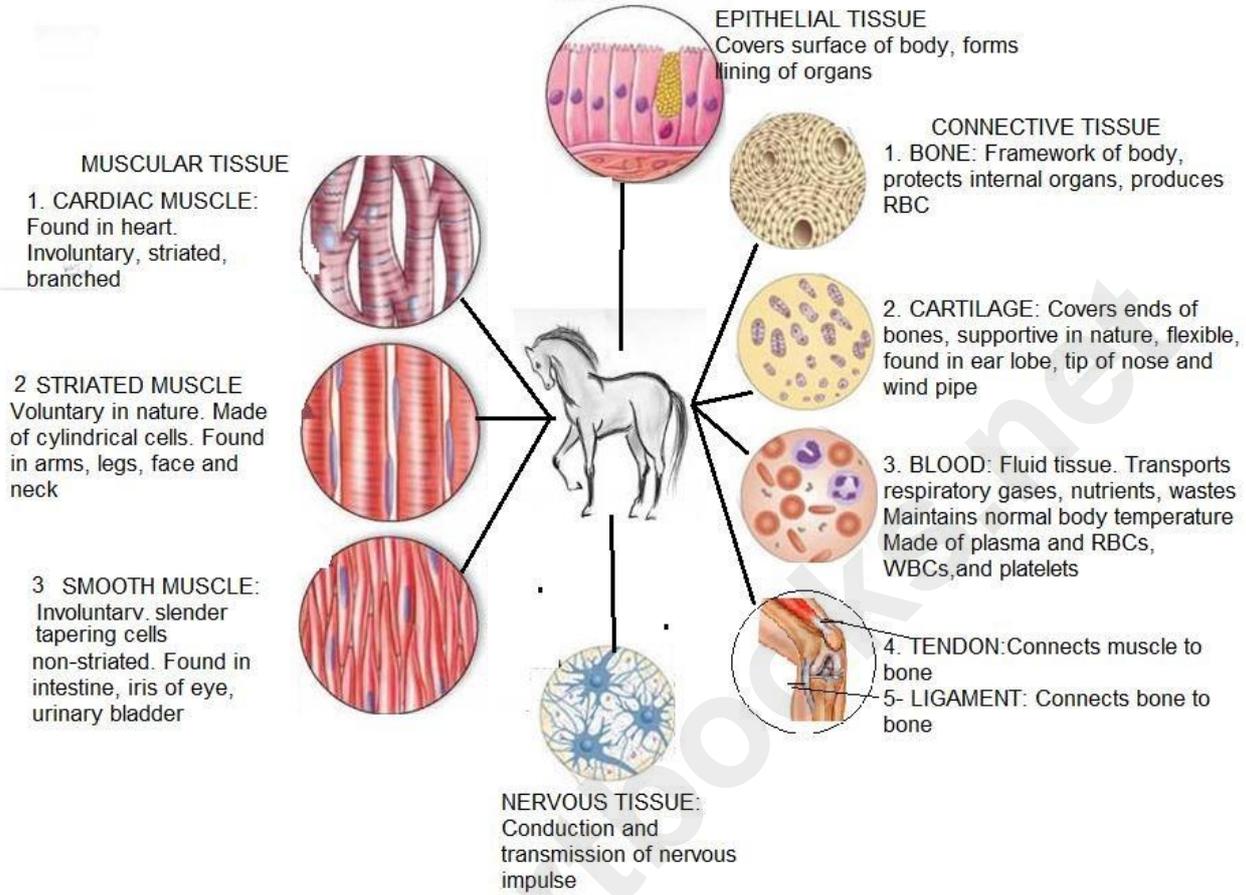


Cell: Structural and functional unit of life
Tissue: Groups of cells similar in structure that perform a specific function
Organ: Different tissues group together and coordinate functions to form an organ
Organ system: Various organs coordinate to form an organ system e.g. stomach, intestine, liver, pancreas etc. work together to form the digestive system
Organism: All organ systems come together to form an organism
Population: Organisms of the same species living in a particular area
Community: populations of different species coexisting with each other in a particular area
Ecosystem: Interaction of biotic community with abiotic factors
Biosphere: The region of integration between lithosphere, hydrosphere and atmosphere which supports life and contains all ecosystems

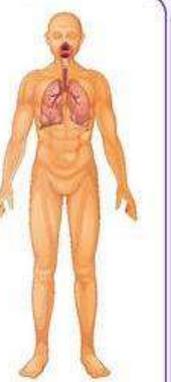
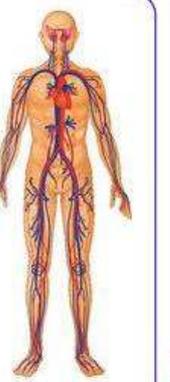
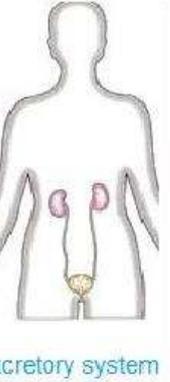
PLANT TISSUES



ANIMAL TISSUES



ORGANS AND ORGAN SYSTEMS IN THE HUMAN BODY

						
Skeletal system <i>provides structure to the body and protects internal organs</i>	Muscular system <i>supports the body and allows it to move</i>	Digestive system <i>breaks down food and absorbs its nutrients</i>	Respiratory system <i>takes in oxygen and releases waste gases</i>	Nervous system <i>controls sensation, thought, movement, and virtually all other body activities</i>	Circulatory system <i>transports oxygen, nutrients, and other substances to cells and carries away wastes</i>	Excretory system <i>Removal of nitrogenous waste osmoregulation</i>
Bones, Cartilage	All muscles of body	Mouth, oesophagus Stomach, intestines, rectum, liver, pancreas	Nose, wind pipe, lungs	Brain, spinal cord	Heart, arteries, veins	Kidneys Ureter Urinary bladder
The skin is the largest organ and forms an outer covering over all these systems						