Tissues

Animal Tissues

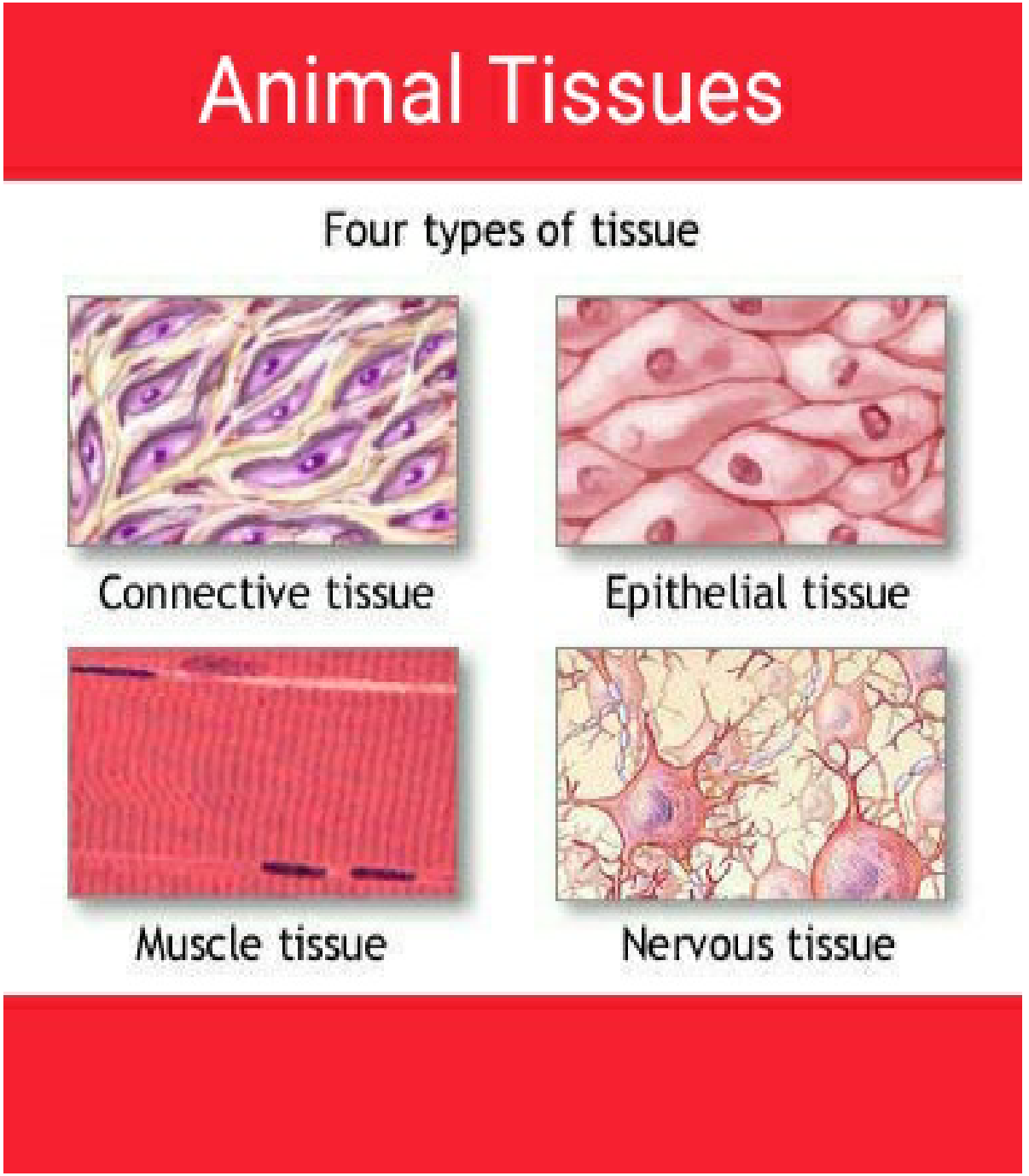
Animal Tissues Types:

Connective Tissues

Epithelial Tissues

Muscle Tissues

Nervous Tissues



Connective Tissues Types:

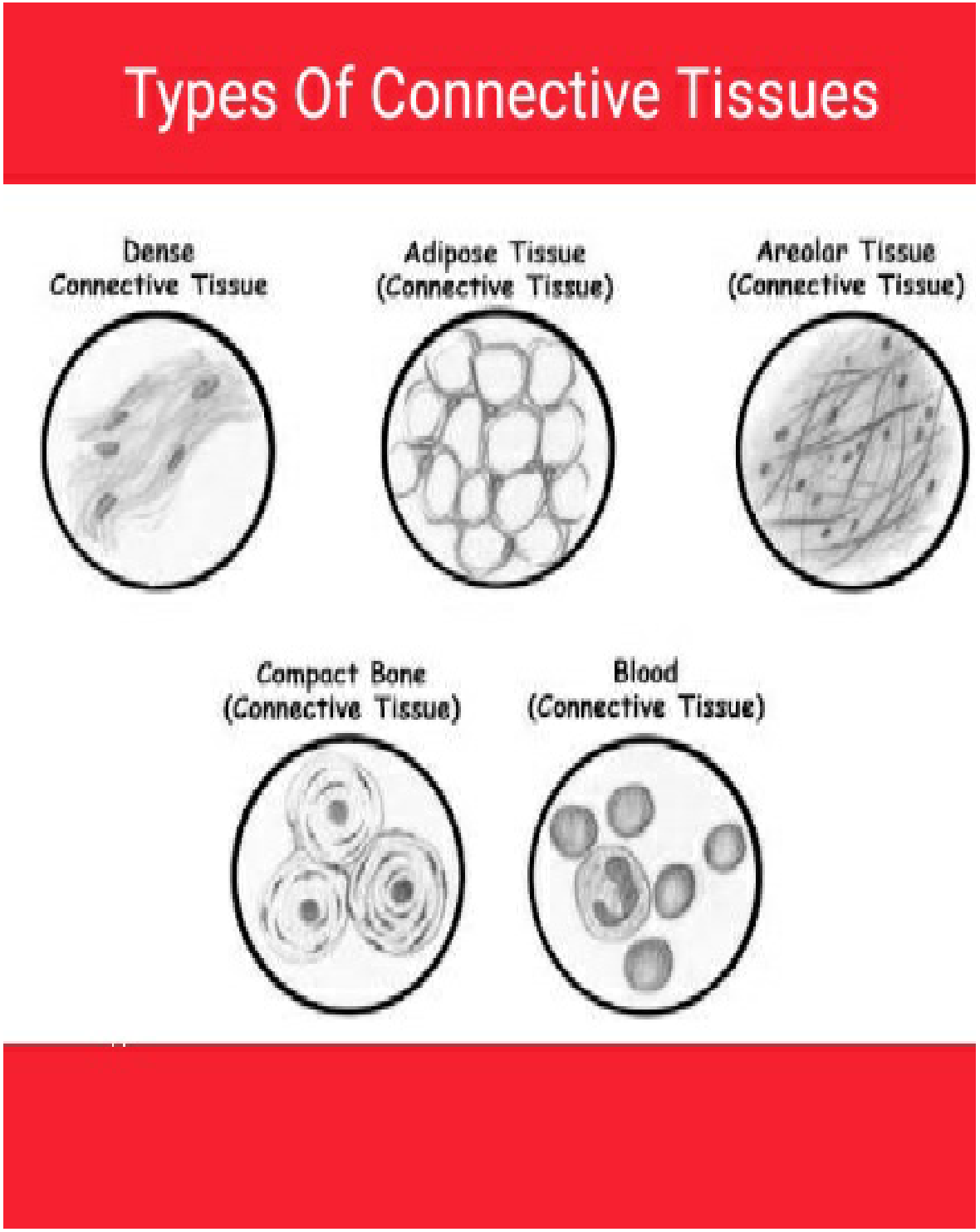
Tendons

Bone

Blood

Adipose Tissues

Aerolar Tissues

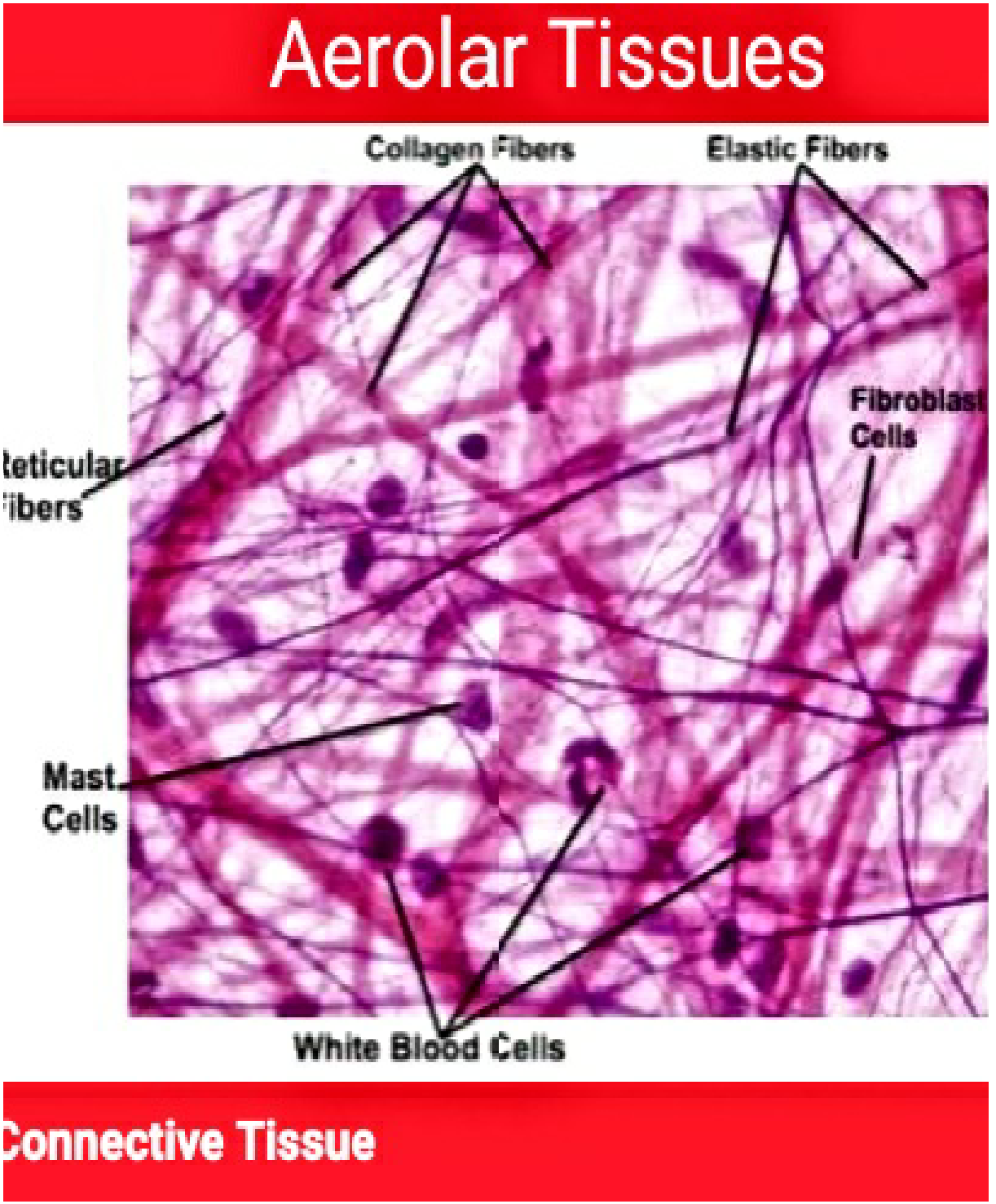


Aerolar Tissues

Functions of Aerolar tissue:

(i) It helps in supporting internal organs.

(ii) It helps in repairing the tissues of the skin and muscles.



Adipose Tissues

Function

Provides reserve food fuel.

Insulation Against Heat loss.

Suppprts & Protects Organs.

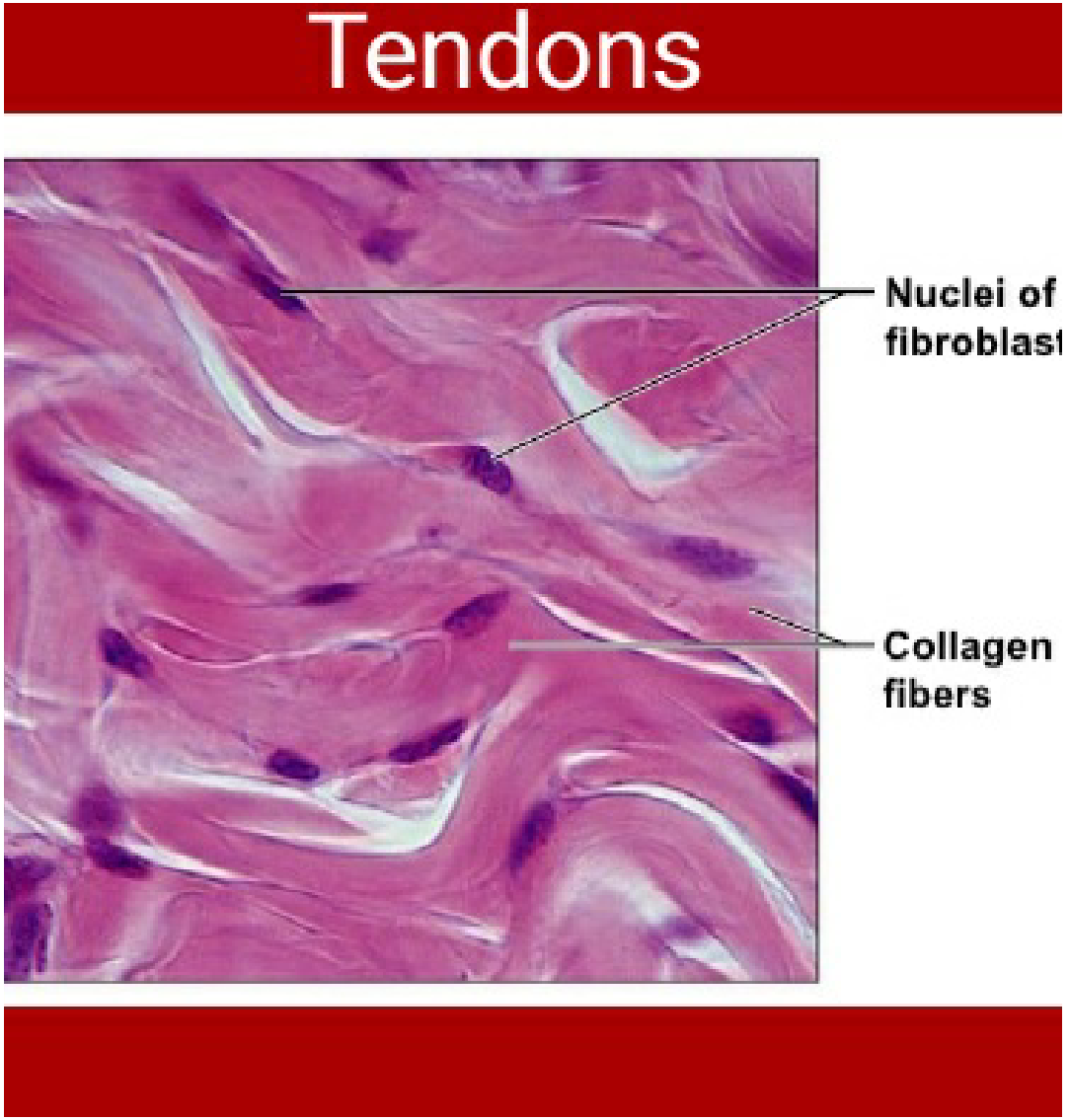
Location: under skin , around Kidney & Eyeballs, Abdomen, Breasts.

Tendon Tissues

Structure- Collagen fibres, Elastic fibres, major cell type- Fibroblasts.

Function- Attaches Muslce to Muscle, Muscle to Bone, Bone to Bone.

Location- Tendons , Ligaments.

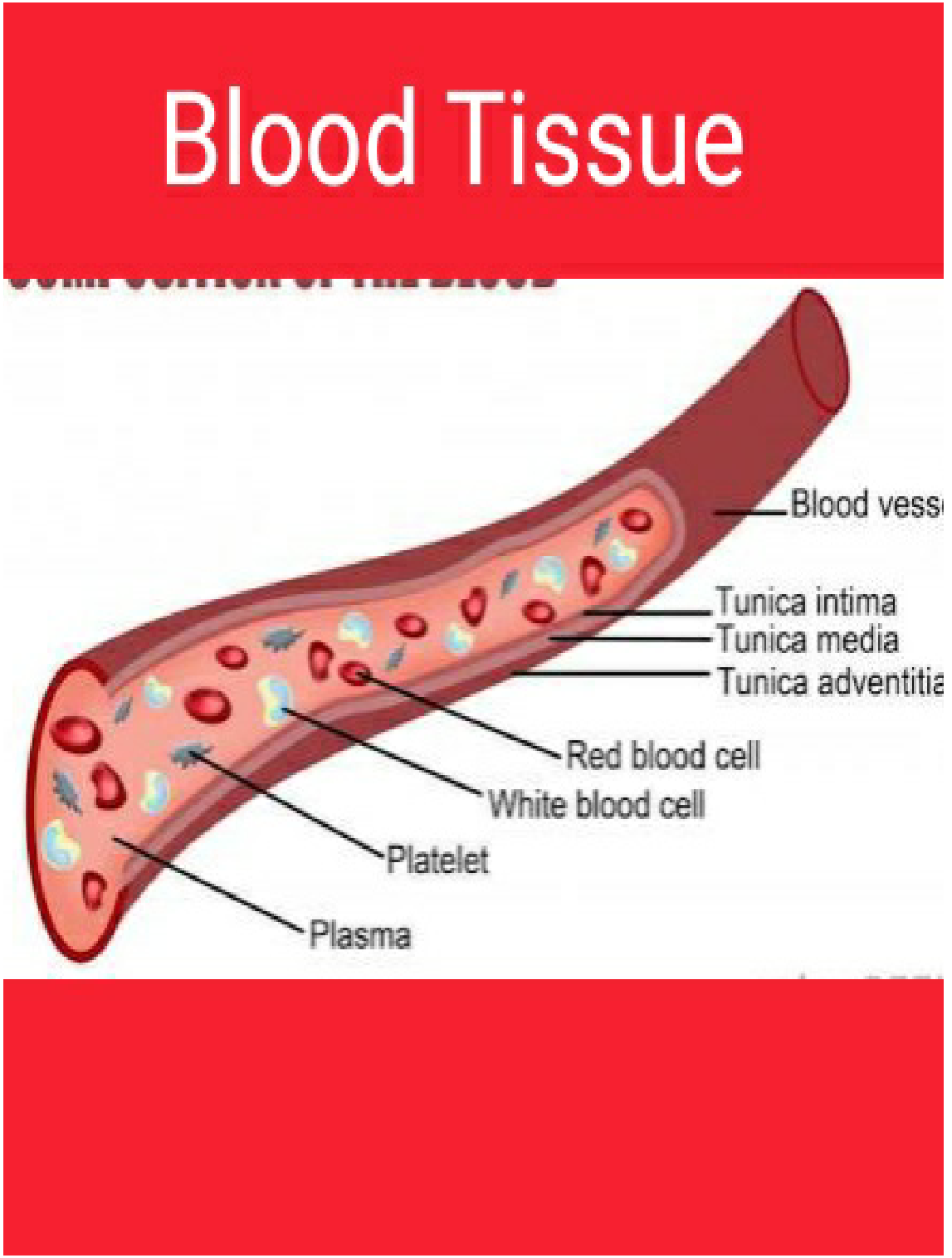


Blood Tissue

Structure- Fluid or Plasma Matrix (Red & White blood cells).

Function- Transportation of Oxygen, Carbon dioxide, Nutrients, Wastes & Other substances.

Location- Inside Blood Cell.



Bone Tissues

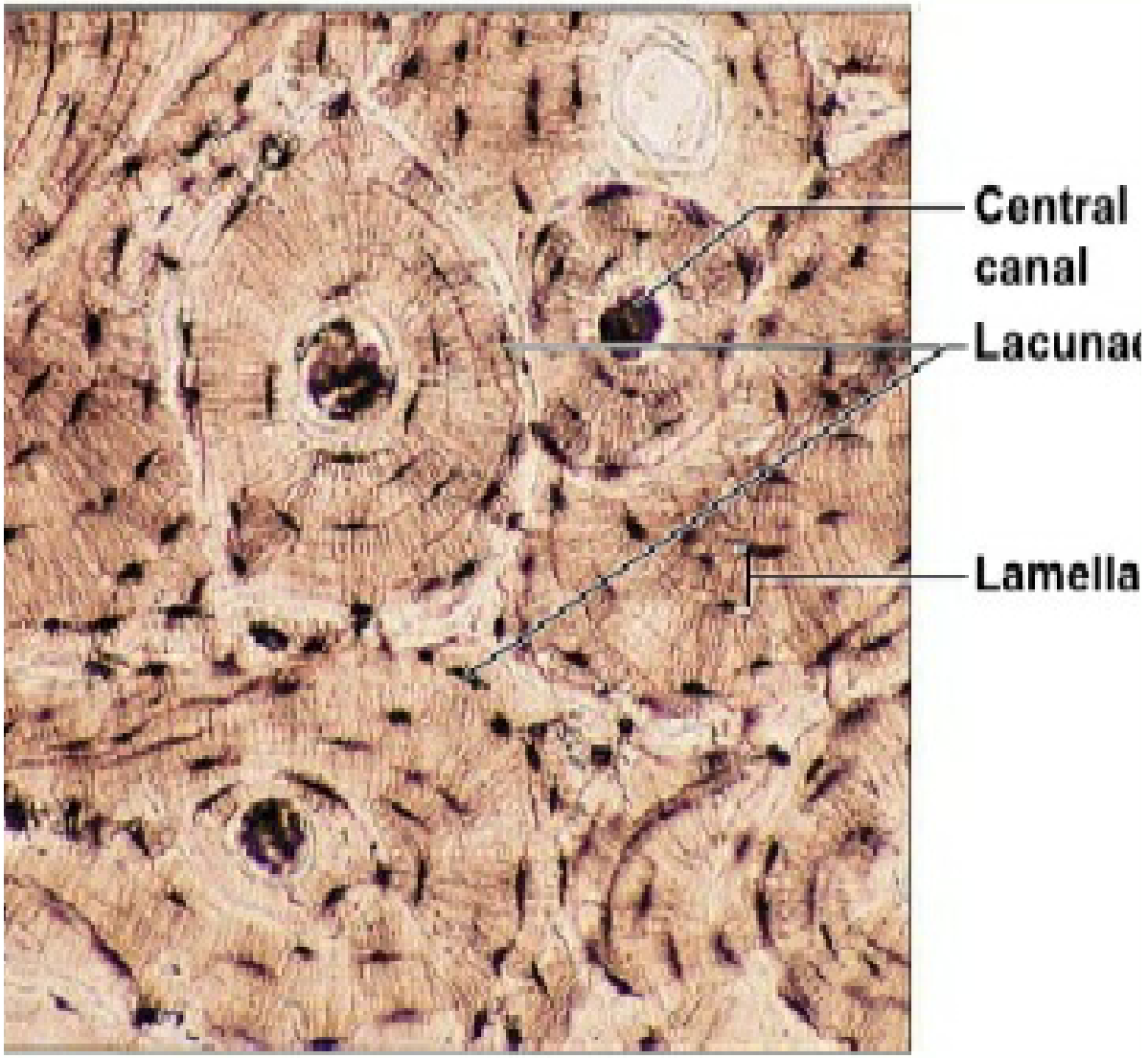
Structure- Hard, Calcium matrix shape with collagen fibres.

Function- Structural strength, support & Protection.

Stores calcium, minerals,fat & Marrow.

Location- Bones

Bone Tissue



Cartilage Tissues

Structure- Amorphous solids with collagen fibres, Special type of skeletal muscle.

Function- Reinforce & support, compressive stress resistance.

Location- Nose, Ear, Trachea, ribs, larynx.

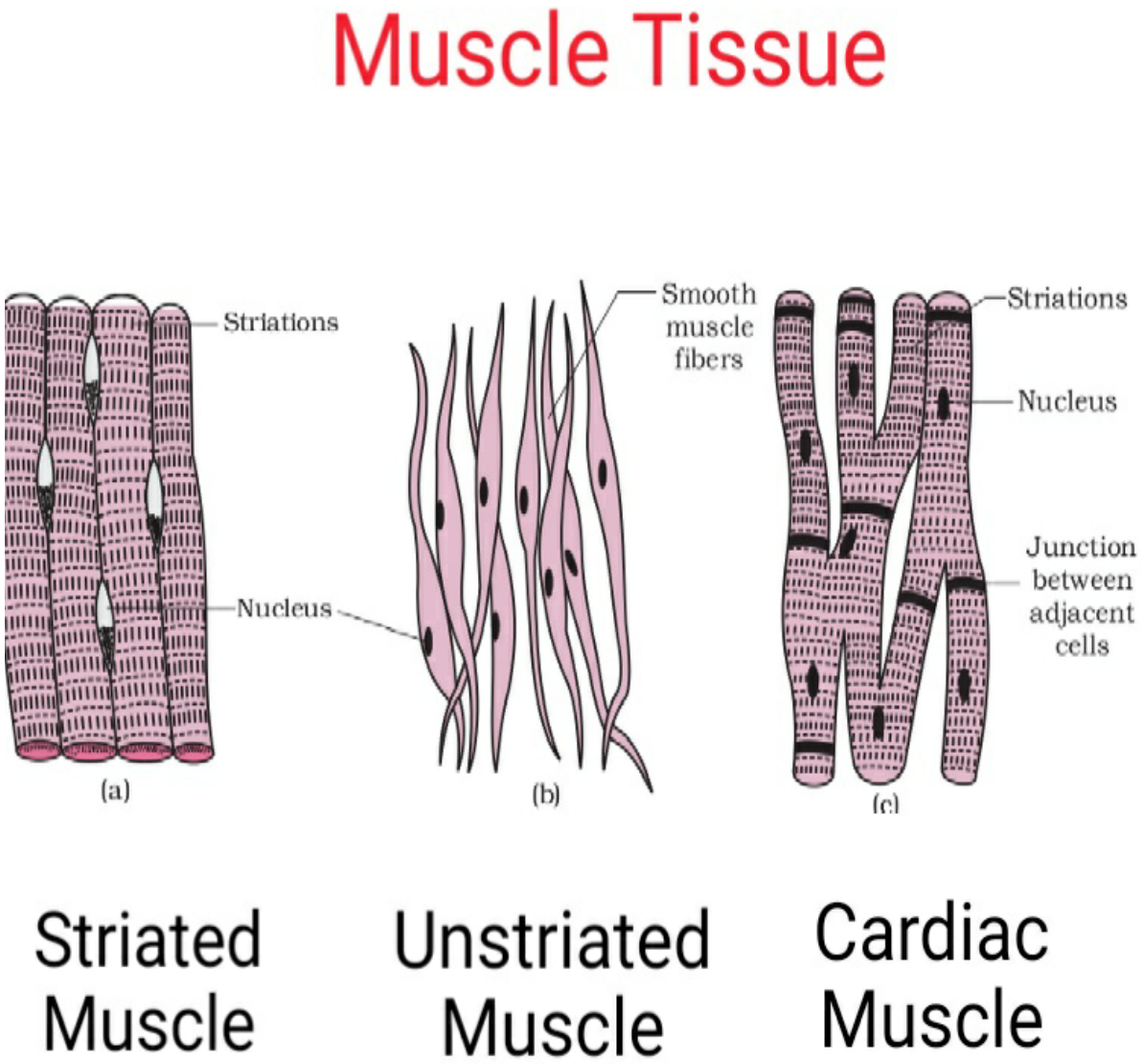
Muscle Tissues

Three types of Muscle Tissue

 # Skeletal Muscle or Striated Muscle.

 # Smooth or Unstriated muscle.

 # Cardiac Muscle



Difference between Striated, Unstriated Muscle

Striated

- Structure- Cylindrical shape cell, Ends are blunt.
- Location- Hands, legs, Tongue.
- Cells are multi-nucleate.
- Cells are non smooth,& unbranched.

Unstriated

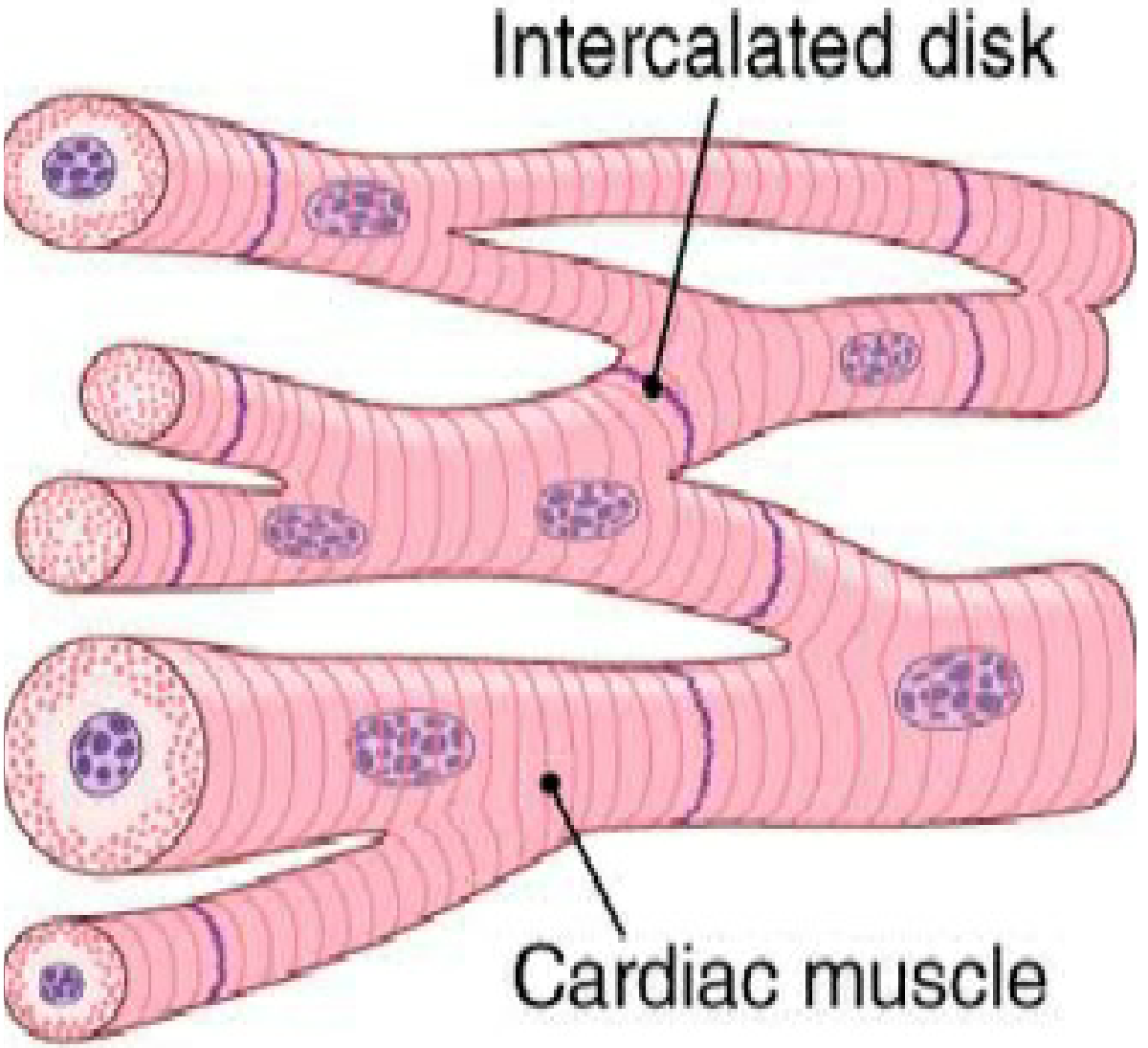
- Structure- long Tubular shape, Ends are tapered.
- Location- Alimentary canal.
- Cells are uni nucleate.
- Cells are smooth,& unbranched.

Cardiac Muscles

Structure- Cylindrical, Branched & Uni-nucleate.

Function- Controls Contraction & Relaxation of the heart, Involuntary Muscles,

Location- Heart



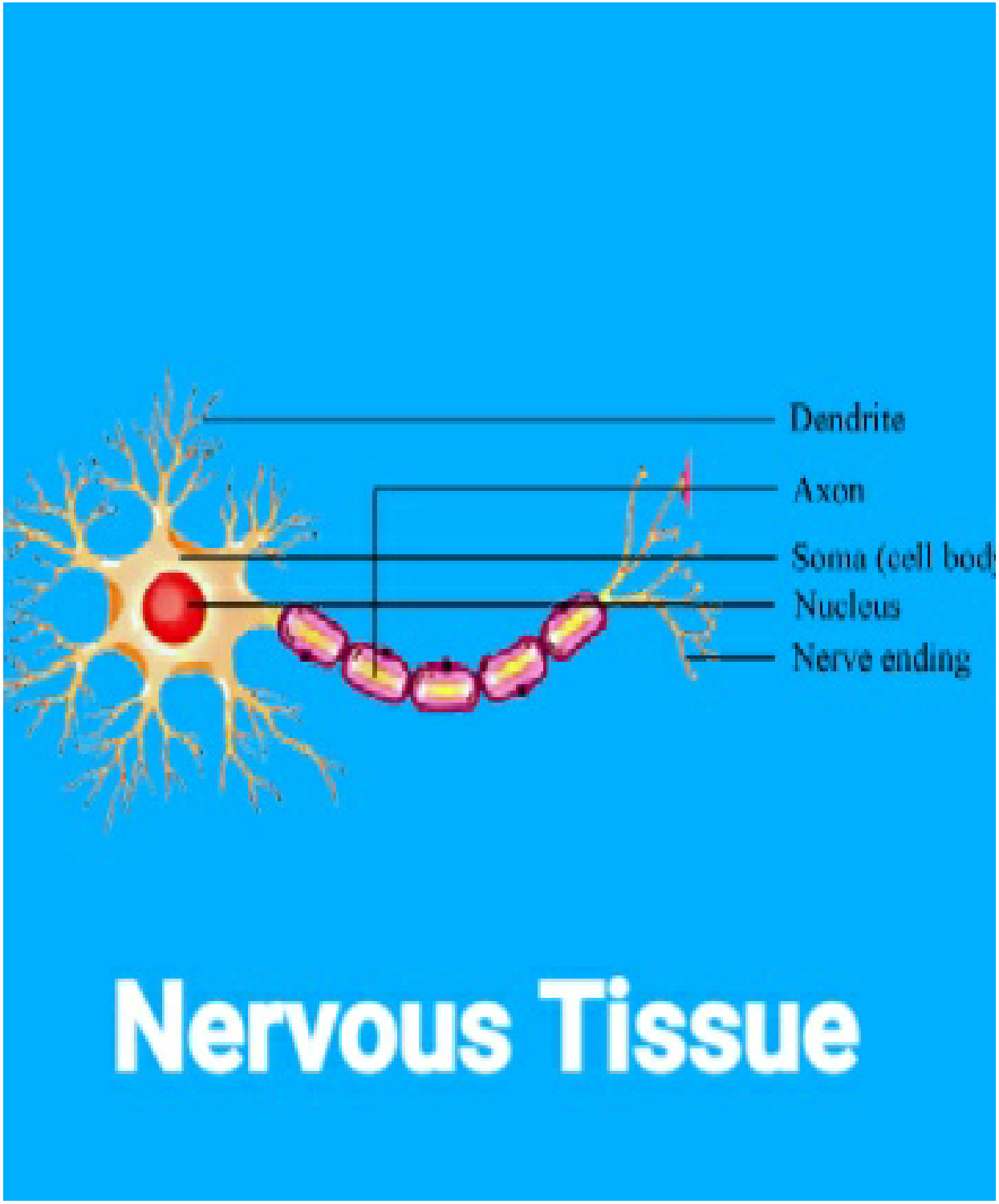
Cardiac Muscle Tissue

Nerve Tissue

Structure - Neuron cell

Function- Transmits Nerve Impulse Signals inside body, Helps in Control and coordination of variois body functions.

Location- Brain, Spinal cord, nerves.



Epithelial Tissue

Structure- Tall cells with oval nuclei, contain mucus secreting glands.

Function- Inner lining, Absorbtion.

Location- Stomach, Alimentary canal, bronchi, Kidney.