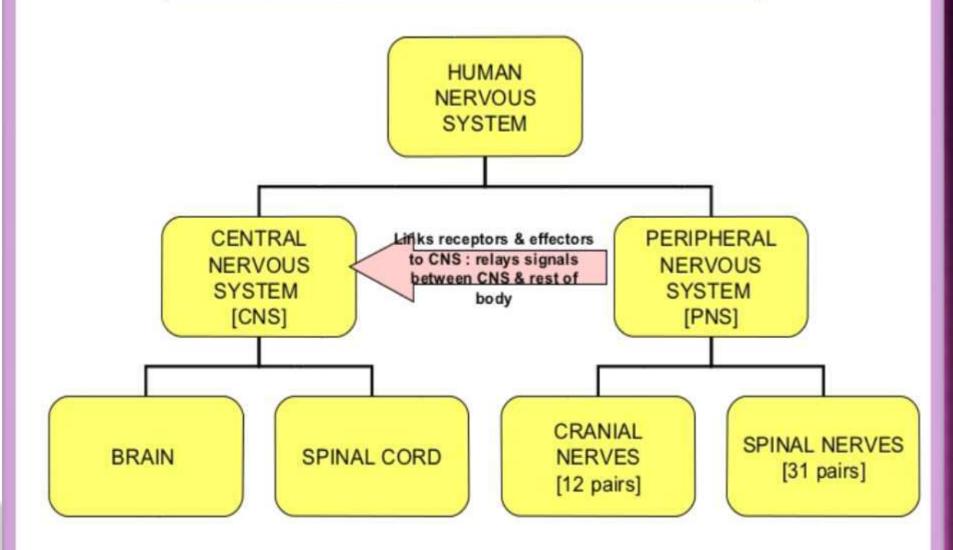
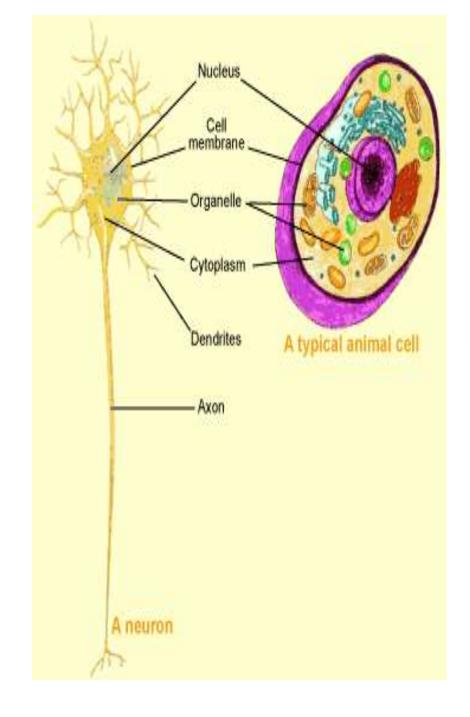


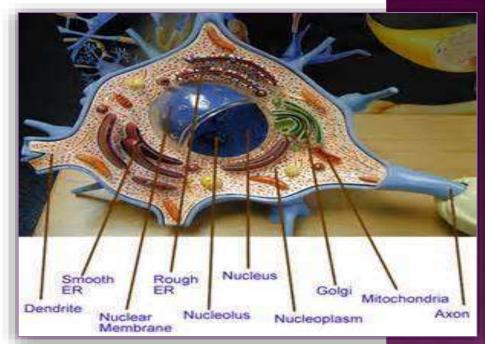
Human Anatomy & Physiology

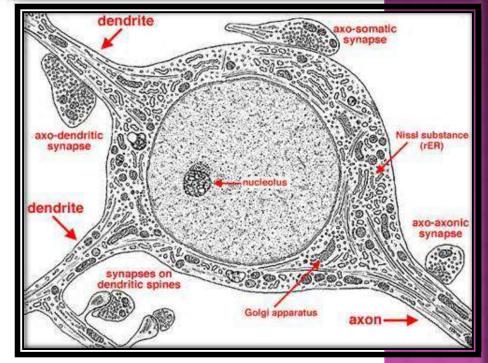
#### ORGANISATION OF THE NERVOUS SYSTEM

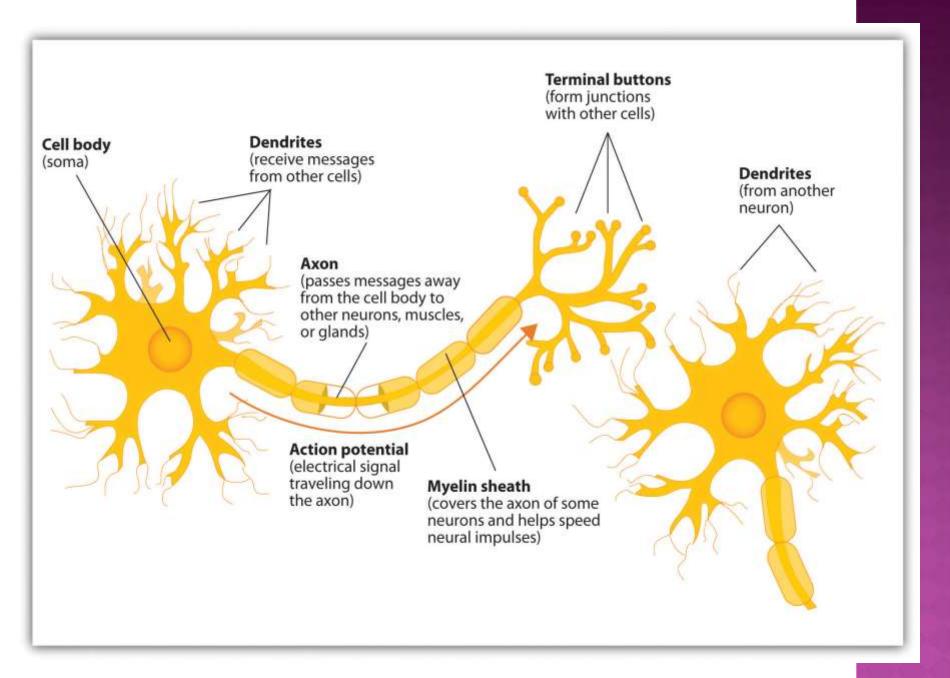


- Nervous tissues is a group of nerve cells(neurones) together with neuroglia/supporting cells, which transmits electro-chemical massages called impulses along their membrane
- Neurone (nerve cell) is the basic functional units of the nervous system
- Neurones are cells specialized to generate and transmit nerve impulses (action potentials)









#### TYPES OF NERVES:-

Nerve consists of many neurons bound together by connective tissue

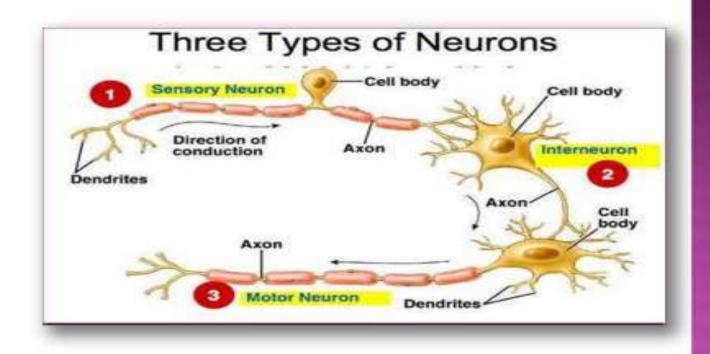
- Sensory nerve contain only sensory neurones
- Motor nerve contain only motor neurones
- Mixed nerve contain both sensory and motor neurones

Neuroglia do not generate or transmit impulses but function to support and protect neurons.

#### Types of neuroglia cell:

Astrocytes, oligodendrocytes, microglial,
 Ependymal cells, satellite cells, schwann cells form myelin sheath of axons in the peripheral nervours system

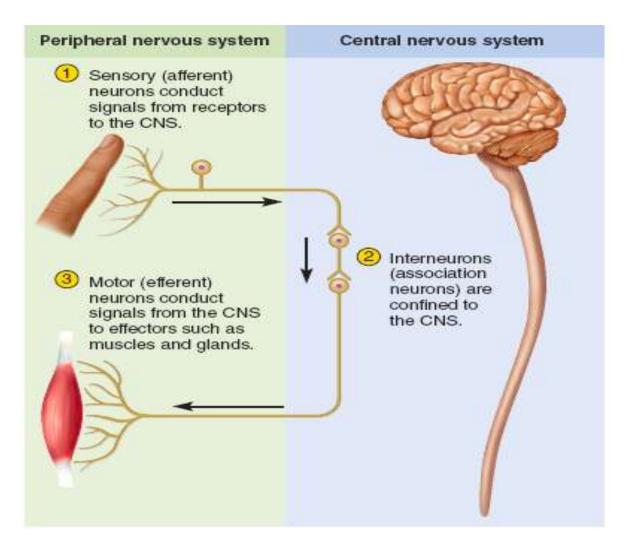
## TYPE OF NEURONS



# A. SENSORY (AFFERENT) NEURONE

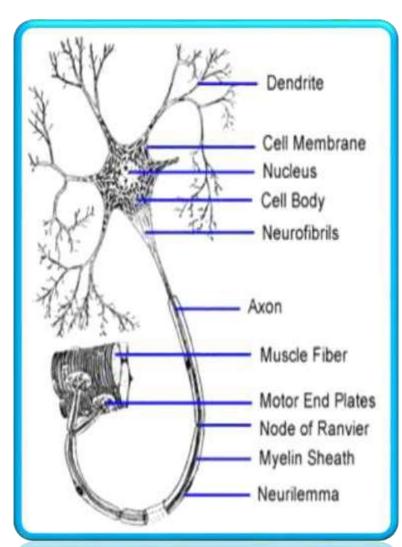
- ☐ A sensory neuron is an electrically excitable cell that processes information taken from one of the five senses: sight, hearing, taste, smell, and touch.
- ☐ This sensory information travels along afferent nerve fibers in an sensory nerve to the brain via spinal cord.

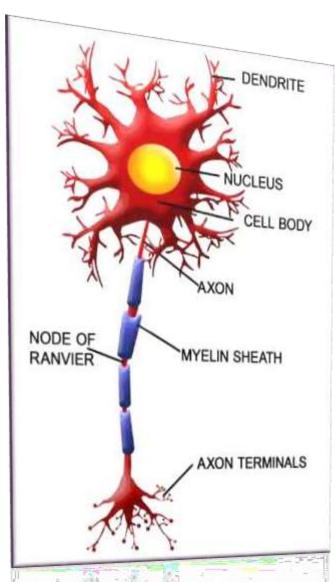
## B. INTERNEURONE



- An interneuron (also called relay neuron, association neuron, connector neuron or local circuit neuron) is one of the three classifications of neurons\_found in the human body.
- Interneurons create neural circuits,
  enabling <u>communication between sensory</u>
  or motor neurons and the central nervous
  system\_(CNS).
- Receives impulse from the sensory neurons and transmits it to motor neurone
- Found in brain and spinal cord
- Some generate impulses and some transmit impulses

# C. MOTOR (EFFERENT) NEURONE





- A motor neuron (or motoneuron) is a nerve cell (neuron) whose\_cell body\_is located in the spinal cord and whose fiber (axon) projects outside the spinal cord to directly or indirectly control\_muscles.
- Motor neurons are <u>efferent nerves</u>\_(also called effector neurons), that carry signals from the <u>central nervous system</u>\_(CNS)(<u>spinal cord</u>) to the effector such as gland and muscles to produce (effect) movement
- They have short dendron and long axon for transmitting impulse from CNS to muscles