

NERVOUS SYSTEM

Nervous system:

- Central Nervous System (CNS)
 - Brain (protected by the skull)
 - . Cerebrum
 - . Cerebellum
 - . Medulla Oblongata
 - Spinal Cord
- Peripheral Nervous System (PNS)
 - Cranial Nerves (Connected to the brain)
 - Spinal Nerves (Connected to the spinal cord)

NOTE:

- Sensory Organs:
 - Eyes
 - Nose
 - Skin
 - Ears
 - Tongue

➤ Effector Organs:

- Gland
- Muscle

VOLUNTARY Message:

➤ Stimulation -----Brain====Spinal Cord -----Effector Organ

-----: PNS

====: CNS

INVOLUNTARY Message:

➤ Stimulation-----Spinal Cord-----Effector Organ

-----: PNS

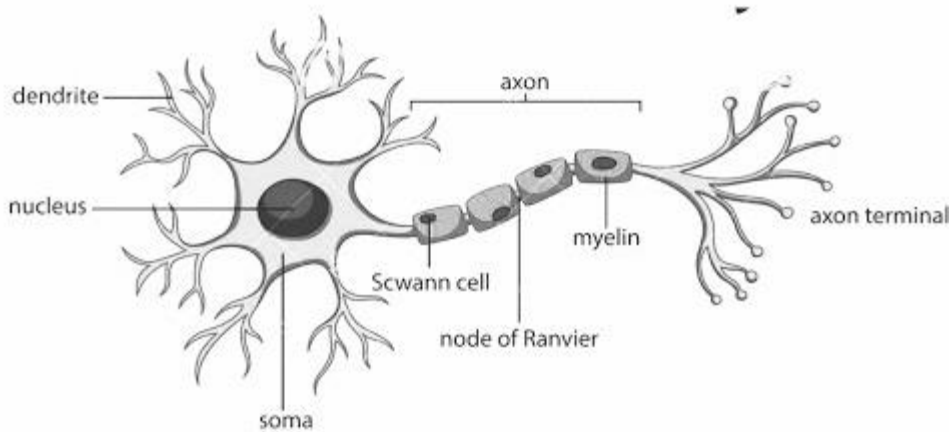
Spinal Cord is the CNS

GENERAL Pathway:

Sensory Organ-----CNS-----Effector Organ

Stimulus = What happened	Stimulation = Type of stimulus	Sensory receptor = Found in sensory organ
Change in pressure	Mechanical	Mechano-receptor
Change temperture	Thermal	Thermo-receptor
Change in chemicals	Chemical	Chemo-receptor
Change in light intensity	Light	Photo-receptor
Wound/Burn	Pain	Noci-receptor
Change in duration and intensity of electricity	Electrical	Electro-receptor

Title: A diagram showing a neuron



NOTE:

- Myealin Sheath secreted by shwan cell
- Shwan / Scwann cell produce Myelin Sheath

Definitions:

Voluntary Actions: Actions that are made with full consciousness and under control of the brain.

Involuntary Actions: Actions that are performed automatically without conscious, under the control of spinal cord.

Myelination:

-Nature: Myelin Sheath is lipid protein covering produced and secreted by Schwann cell.

-Function: Electrically insulates the axon of the neuron and speed up the conduction of Nervous System.

NOTE:

Nervous message conducted by the neuron is **UNIDIRECTIONAL**

Reflex Arc: A sequence of actions that occurs as a response to a particular stimulus. Reflex arcs can be voluntary and involuntary.

