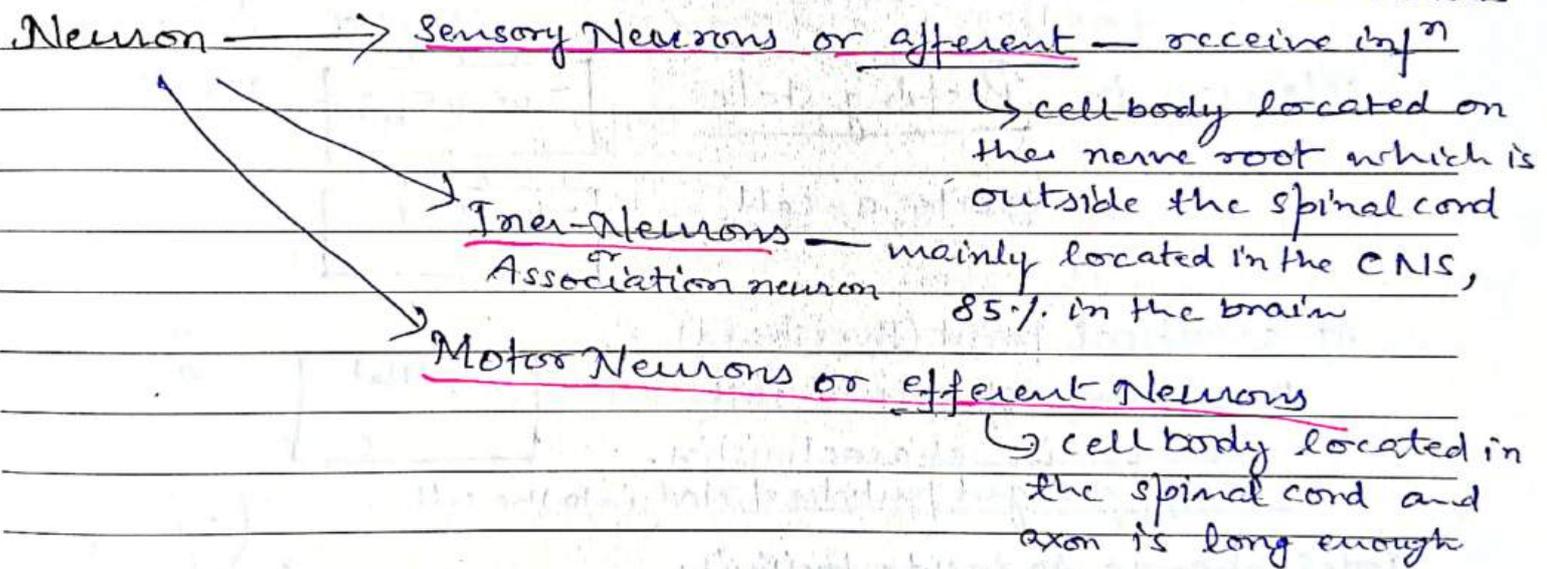
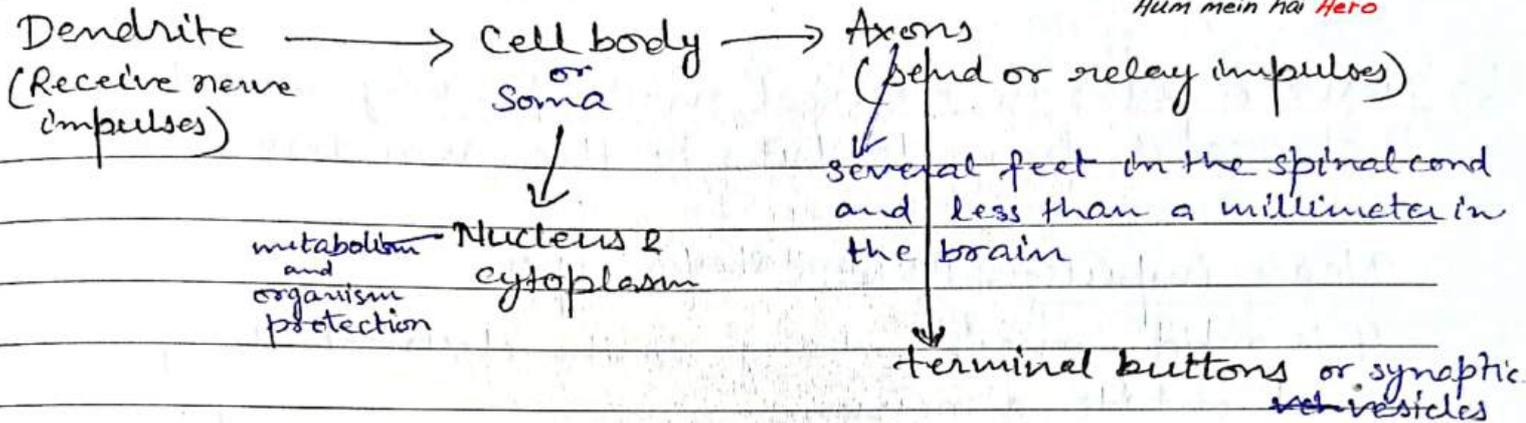


Neurons or nerve cell form the basic building blocks of our nervous system.



Hum mein hai Hero

Date _____



Absolute Refractory period — Nerve does not respond (0.5 to 2 milli sec)

Relative Refractory period — only a very strong stimulation can excite the nerve fibre.

↳ Nerve Impulses are transmitted chemically across a small gap between the neuron, the neurons never touch each other. gap called synapse.



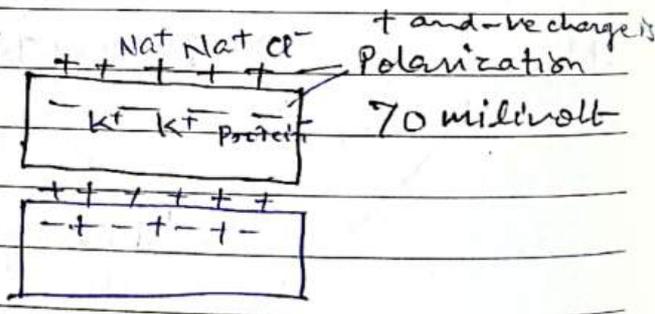
↳ When an impulse arrives at the end of the axon, electrical conduction in axon is changed to chemical transmission.

↳ Nerve impulses are electrical events of a very short duration that travel from dendrites to the axon terminals.

Nerve impulse - brief and sharp → Spike

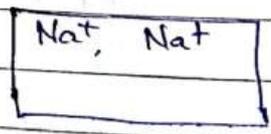
It is rapid, reversible change in the electrical charge within and outside a neuron.

Neuron in Resting state



At a critical point (threshold)

membrane of neuron will change its characteristics, allowing charged particles of Na⁺ into the cell



change for a millisecond

Depolarization change in charge inside and outside of neuron

But if change to inside positivity

is called the Action potential or nerve impulse
↳ all-or-none response

After the nerve impulse has occurred, the neuron is restored to its original resting charge by an outward flow of potassium ion and is ready to fire again.

Graded Potential - start before action potential, depend on magnitude