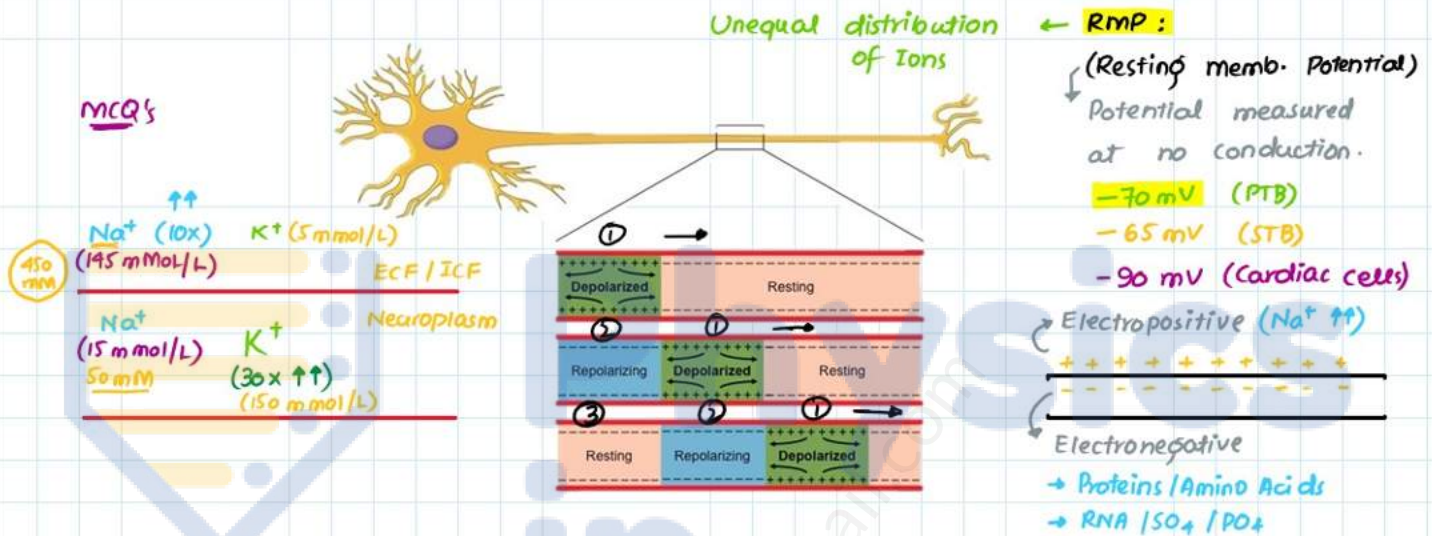


Oscilloscope (Measure) →

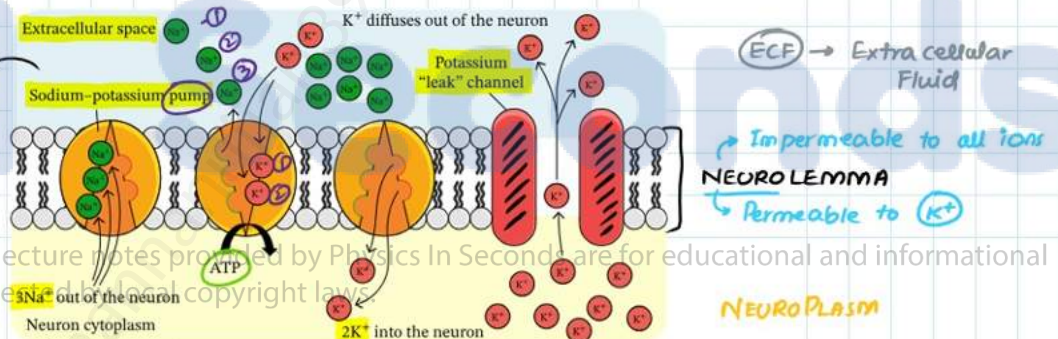
**NERVE IMPULSE**→ Wave of Electro-chemical change.  
Unidirectional, Irreversible

RECEPTOR → SENSORY NEURON → CNS → MOTOR NEURON → EFFECTOR



1.  $\text{Na}^+$ -gates/channels (moves  $\text{Na}^+$  inside) → Depolarization (Passive)
2.  $\text{K}^+$ -gates/channels (moves  $\text{K}^+$  outside) → Repolarization (Passive)

3. Recovery Phase  
Refractory Phase  
→ Active Transport

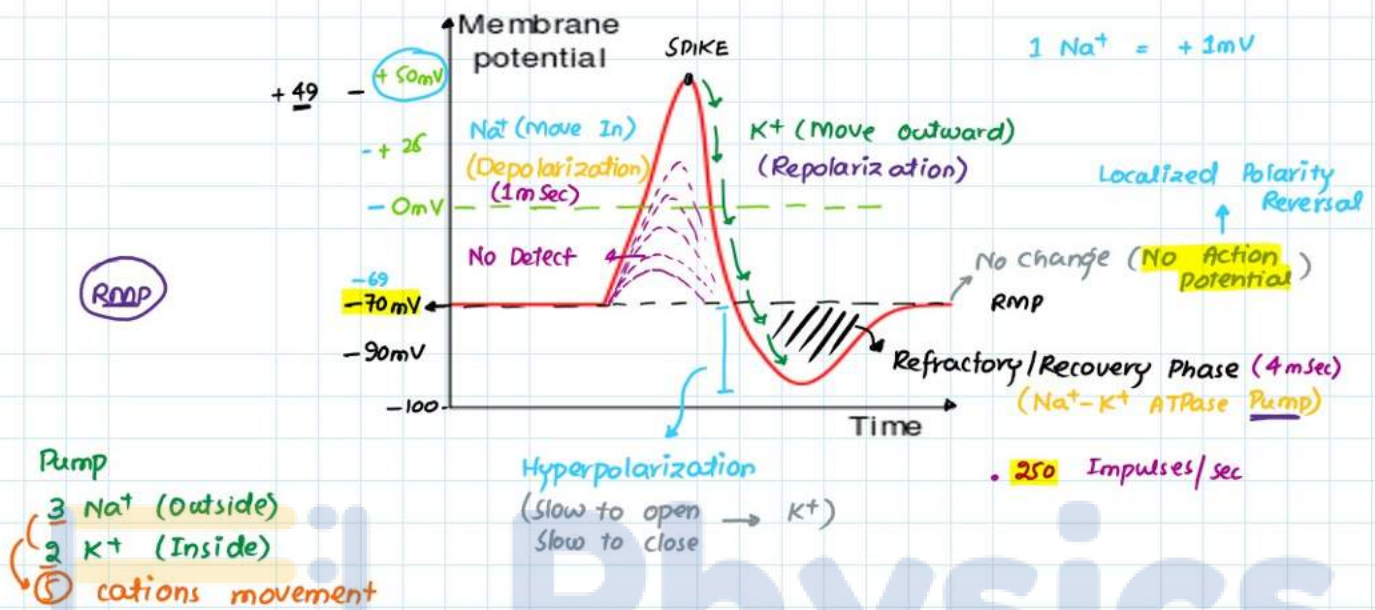


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- Stimulus** → Any change which body can detect.
- Threshold Stimulus → minimum value which body can detect.

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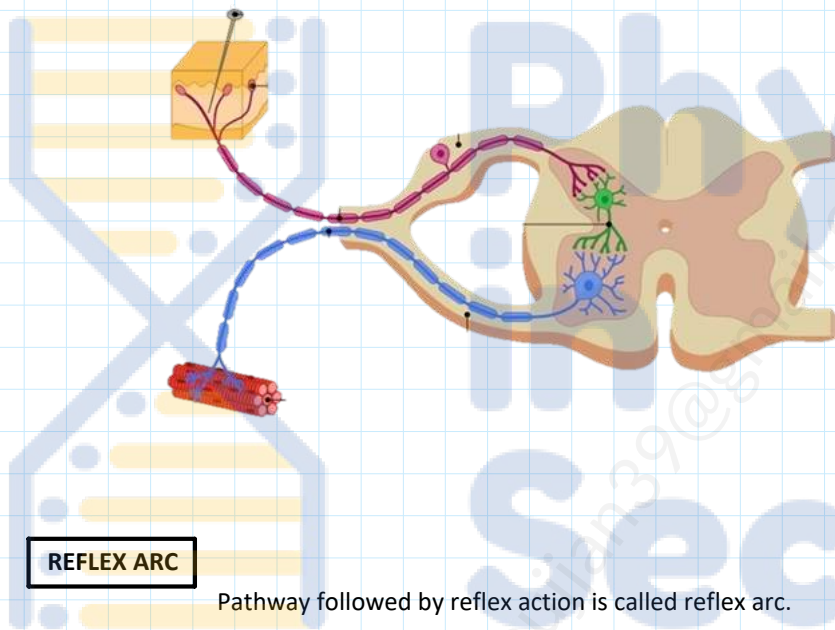
## SYNAPSE

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## REFLEX ACTION



## REFLEX ARC

Pathway followed by reflex action is called reflex arc.

## CLASSIFICATION OF SYNAPSES

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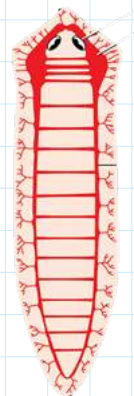
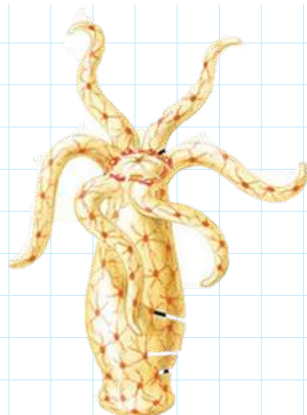
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## EVOLUTION OF NERVOUS SYSTEM

### DIFFUSED NERVOUS SYSTEM

### CENTRALIZED NERVOUS SYSTEM





### PAST PAPER QUESTIONS

**The type of neuron that carries nerve impulse from tissue and organ to the spinal cord and brain:**

ETEA - 2022 .

- A. Sensory neuron
- B. Motor neuron
- C. Intermediate neuron
- D. Associative neuron

**The reflex action is the phenomenon which only involves:**

MOCAT - 2019 ::

- A. Brain, Receptors, spinal cord
- B. Receptors, Neurons, Brain
- C. Receptors, Effectors and Spinal cord
- D. Receptors and Effectors

**An automatic, involuntary response to any change external or internal is called:**

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NUMS - 2022 .

- A. Reflexes
- B. Instincts
- C. Taxis
- D. Tropism

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**During an involuntary action, nerve impulse is passed through a pathway called:**

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BUMHS - 2022 ::

- A. Reflex action of nerve impulse
- B. Reflex action of glands
- C. Reflex arc and reflex action
- D. Reflex arc

**The resting membrane potential of neuron is measured about:**

ETEA - 2022 ...

- A. -30 millivolts
- B. 50 millivolts
- C. -70 millivolts
- D. 100 millivolts