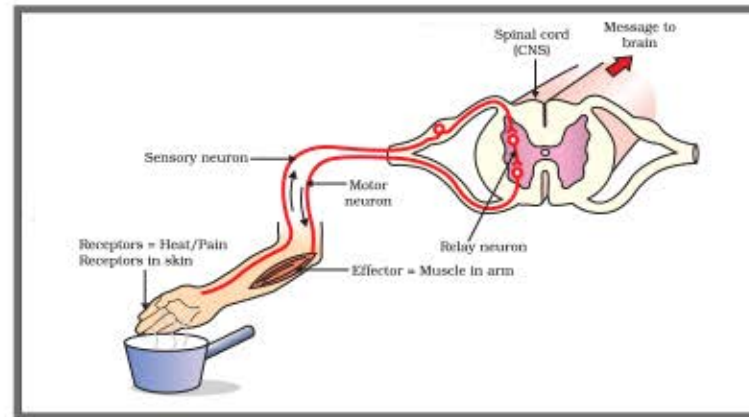


REFLEX ACTION



Reflex Arc

Reflex arcs may have evolved as efficient way of functioning in the absence of true thought processes

Receptor (heat/pain receptor) in skin is triggered by a stimulus

Sensation/signal travels from the receptor through sensory nerve

Reaches the spinal cord of the Central Nervous System (CNS)

Relay neuron (in the spinal cord) passes the signal to the motor neuron

Other spinal neurons transmit this signal to the brain to store it as memory

Motor neurons carry the impulse (without the help from the brain but based on previous memory)

Brings about the reaction in the effector organ

Causes muscle twitch/salivation/etc. depending on the organ