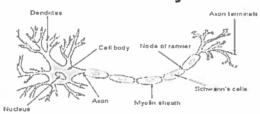
The Nervous System



- The <u>brain</u> controls almost everything that happens in your body
 - We can live without certain organs, but no one can live without a brain
- The brain is just part of the nervous system → the system that senses the environment and coordinates appropriate responses
- The nervous system is made up of the <u>brain</u>, <u>spinal chord</u> and <u>peripheral nerves</u>

Structural Features

- The nervous system is made up two parts:
 - central nervous system
 - · brain and spinal cord
 - peripheral nervous system
 - nerves that carry signals between the body

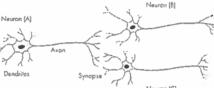
Nerve Tissue

nerves are made voof specialized cells called neurons

- · their spectra enables the possed information around your body
- ney do this by conducting lectrical signals nerve impulses from one area of the body to another

 Neuron IRI

 Neuron I



Sensory Receptors

- sensory receptors are specialized cells that receive input from our external environment and send signals to the _____ brain ____.
- in addition to the familiar senses, we have receptors in our muscles and skin that are sensitive to pressure, temperature and pain

Cool Facts About the Nervous System

- If we lined up all the neurons in our body it would be around 1000 km long
- The left side of human brain controls the <u>right</u> side of the body and the right side of the brain controls the <u>left</u> side of the body
- Neurons are the largest cells in the human body. (up to ___1 __m long)
- The Nervous System can transmit impulses as fast as __360 __km/h