

## Chapter 7 - The Nervous System

\* The master controlling and communicating system of the body.

- 1) Monitor changes internally and externally – stimuli – sensory input
- 2) Integration – processes and interprets this input
- 3) Motor Output – effects a response 1) Red light (input) 2) Red light means stop 3) your foot steps on the brake (motor output)

Nervous System work closely with the Endocrine System to maintain homeostasis

### I. Organization of the Nervous System

#### A. Structural Classification -

- Nervous System – 2 Subdivisions
  - 1 – Central Nervous System (CNS) – made up of the brain and spinal cord. Interpret incoming information and issue instructions.
  - 2 – Peripheral Nervous System (PNS) – all of the nerves outside of the CNS
    - ax – spinal nerves – extend from the spinal cord. Link all parts of the body.