

Coordination

It is the process through which 2 or more organs interact & complement the functions of another.

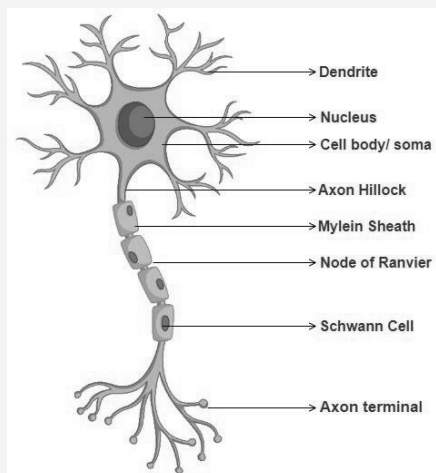
In our body, the neural system & the endocrine system jointly coordinate & integrate all the activities of the organs so that they function in a synchronised fashion.

Neural System

- the neural system of highly specialised animals are composed of cells known as **neurons**.
- neurons can detect, receive, & transmit different kinds of stimuli to & from the brain.

In organisms like *Hydra*, the neurons are very basic but in organisms like *Humans*, the neurons have a much complex structure.

Neuron



Human Neural System

- divided into 2 parts -
 1. the **central nervous system** - consists of the brain & the spinal cord
 2. the **peripheral nervous system** - comprises of all the nerves associated with the CNS
- the PNS is divided into the **somatic neural system** & the **autonomic neural system**
the SNS relays impulses from the CNS to the skeletal muscles while the ANS transmits impulses from the CNS to the smooth muscles

the **visceral nervous system** is the part of the PNS that comprises the whole complex of nerves, fibres, ganglia & plexuses by which impulses travel from the CNS to the viscera & vice versa

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Not published yet.
Last updated 30th September, 2023.
Page 1 of 1.

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