

* Reflex Action → It is an automatic, unconscious, spontaneous actions towards stimulus.

Types → (I) Cerebral Reflex — Control centre is Brain
(II) Spinal Reflex — Control centre is spinal cord.

Reflex Arc → Route / pathway which show the transmission of message for Reflex action.

* Human Nervous System

Types — 1. Central Nervous System (C.N.S)
Consists of Brain and spinal cord.

2. Peripheral Nervous System (P.N.S)
Consists of different types of Nerves.

Types of Peripheral Nervous System : —

(I) Voluntary Nervous System

Consists of Cranial Nerves and spinal Nerves

(II) Involuntary / Autonomic Nervous System.
Consists of both spinal and cranial nerves.

Types of Involuntary Nervous System : —

(I) Sympathetic (II) Para sympathetic Nervous system.

* Central Nervous System →

Brain → Uppermost part of central Nervous system.
Human Brain is most advanced and well developed.

Parts → Fore Brain, Mid-Brain, Hind-Brain.

Functions → * Controls and Regulates functioning of Body organs.

* Site of Intelligence, memory, learning etc.

Chapter - Control And Coordination.

KEY POINTS

Control → It is a power of regulation through which something can be started, stopped, slowed down and accelerated.

Coordination → The working together of various organs in the body of a living thing is called coordination.

System for control and co-ordination in plants →

* Hormonal system (chemical control)

System for control and coordination in animals →

* Nervous system.

* Endocrine system.

Nervous system → comprises of Brain, Spinal cord and Nerves.

Endocrine system → consists of Endocrine glands which release hormones.

Receptors → Cells, Tissue and Organs which detect/receive Stimuli

Types → 1. Photo receptor 2. Photo receptor 3. Olfactory receptor 4. Gustatory receptor 5. Thigmo/Thermoreceptor

Neuron → Structural and functional unit of Nervous system or Nerve cell.

Types → 1. Sensory Neuron 2. Motor Neuron 3. Relay (Mixed)

Parts → 1. Cyton (cell body) 2. Dendrites 3. Axon

Synapse → Microscopic gap at the junction of two Neurons.

Neurotransmitter → A chemical released by Axon terminals.
eg - Acetylcholine, Glutamic Acid.