

# Chapter 7

## Nervous System

### LESSON PLAN

#### SPECIFIC OBJECTIVES

The students will learn about

- ❖ components of nervous system
- ❖ human nervous system
- ❖ reflex action and its mechanism

#### Teaching Aids

**Pictures/charts/models/animation** on human nervous system, structure of a neuron showing myelin sheath around its axon, structure of synapse; structure of human brain, TS spinal cord; knee-jerk reflex, simple reflex arc, Pavlov's experiment on dog to demonstrate acquired reflex

#### Teaching Strategy

- ❖ Teacher will start the chapter by revising the parts and functions of the nervous system taught in previous class.
- ❖ Now, teacher will explain the parts, functions and types of neurons.
- ❖ Teacher will explain nerve fibres, nerves and their types.
- ❖ Now, teacher will discuss human nervous system and its parts.
- ❖ Teacher will explain central nervous system, its parts and their functions.
- ❖ Teacher will discuss cranial and spinal nerves.
- ❖ Teacher will define reflex action and its mechanism.
- ❖ Teacher will define conditioned reflexes by explaining Pavlov's experiment on dog.
- ❖ Now, teacher will ask student to solve 'Check Point'.
- ❖ At last, teacher will sum up the lesson by going through the points given under the head 'Wrapping It Up'.
- ❖ Teacher will finally help students to answer the questions given under the head 'Test Yourself'.

## Boost Up

- ❖ Teacher can make students revise new terms given under the head 'Know These Terms'.
- ❖ Teacher can encourage students to learn the facts given under the head 'Something More'.
- ❖ Teacher can show animations related to the topics taught, if possible.

## Expected Learning Outcomes

The students understand and know:

- ❖ nerve cell, its parts and their functions
- ❖ myelin sheath, synapse, nerve fibres and nerves
- ❖ types of neurons and nerves
- ❖ brain, spinal cord, cranial and spinal nerves
- ❖ reflex action, its components and mechanism
- ❖ acquired or conditioned reflexes
- ❖ Pavlov's experiment on dog

## Evaluative Questions

The teacher should ask the following questions to evaluate the students:

1. What is nervous system?
2. What is a nerve cell?
3. What is synapse?
4. What are interneurons?
5. Name different parts of human brain.
6. What are cranial and spinal nerves?