Chapter 5

Endocrine System

LESSON PLAN

SPECIFIC OBJECTIVES

The students will learn about

- control and coordination
- endocrine system
- growth in human beings
- adolescence and accompanying changes
- importance of personal hygiene

Teaching Aids

Pictures/charts/models/animation on exocrine and endocrine glands, thyroid gland, simple goitre, structure and location of adrenal glands, location of pituitary gland, location and section of pancreas; infancy, childhood, adolescence, adulthood, adam's apple, VS of skin; pictures related to personal hygiene

Teaching Strategy

- Teacher will start the chapter by introducing the terms homeostasis, chemical control and neural control and will discuss control and coordination in multicellular animals.
- Teacher will differentiate between chemical and neural controls.
- Now, teacher will introduce endocrine system explaining and differentiating between exocrine and endocrine glands.
- Teacher will explain hormones and their characteristics.
- Teacher will discuss endocrine glands, their location, functions and effects of their hyperand hyposecretions in human body.
- Now, teacher will ask students to solve 'Check Point 1'.
- Now, teacher will introduce and explain four phases of growth infancy, childhood, adolescence and adulthood in human beings.

- Teacher will define adolescence and will discuss physical, social and emotional changes during adolescence.
- Teacher will discuss adolescence and related problems.
- Teacher will explain importance of personal hygiene and the ways to maintain personal hygiene.
- Now, teacher will ask students to solve 'Check Point 2'.
- ♦ 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.
- Teacher can act as counsellor and help students to solve problems related to adolescence.
- ❖ Teacher can guide stress management.
- Teacher should emphasise on the requirement of hygiene and motivate students for keeping personal hygiene.

Expected Learning Outcomes

The students understand and know:

- endocrine system and endocrine glands in human body
- growth phases in human beings
- adolescence, related changes and problems
- stress management
- personal hygiene, its requirement and ways to keep personal hygiene

Evaluative Questions

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

- 1. What is homeostasis?
- 2. What are endocrine and exocrine glands?
- **3.** What is adolescence?
- 4. What are secondary sexual characters?
- **5.** What is stress?
- 6. What is personal hygiene?