

Chapter 6

Excretory System

LESSON PLAN

SPECIFIC OBJECTIVES

The students will learn about

- ❖ excretion and its need
- ❖ human excretory system
- ❖ disorders of urinary system

Teaching Aids

Pictures/charts/models/animation on skin, lungs, liver; renal excretory system of human beings, internal structure of human kidney, process of urine formation; dialysis

Teaching Strategy

- ❖ Teacher will start the chapter by introducing and defining the terms – metabolic wastes, toxic, excretory substances, excretion, excretory organs and excretory system.
- ❖ Teacher will discuss the need of excretion.
- ❖ Teacher will also differentiate between waste products and excretory products.
- ❖ Teacher will name the organs of excretion in human beings.
- ❖ Now, teacher will explain the structure and function of renal excretory system in human beings.
- ❖ Then, teacher will explain the functioning of other excretory organs of human beings.
- ❖ Teacher will discuss disorders of urinary system.
- ❖ Teacher will also discuss the dialysis and kidney transplantation.
- ❖ Now, teacher will ask students 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:

- ❖ process of excretion and its need
- ❖ differences between waste products and excretory products
- ❖ renal excretory system
- ❖ organs of excretion in human beings
- ❖ role of kidneys in the formation of urine
- ❖ skin, lungs and liver as organs of excretion
- ❖ urinary tract infection, kidney stone, dialysis and kidney transplantation

Evaluative Questions

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

1. What are metabolic wastes?
2. What is excretion?
3. What are the differences between excretory products and waste products?
4. Name the organs of excretion in human body.
5. Name the steps of urine formation.
6. What is UTI?
7. What is dialysis?