# Contents

1.	Cell: The Fundamental Unit of Life	1–30
	<ul> <li>Living organisms are made up of cells Discovery of the cell Cell theory</li> <li>Microscope – instrument for viewing cells Cells Basic structure of a cell</li> <li>Cell organelles</li> </ul>	
2.	The Tissues The Tissues	31-66
	■ Differences between plant and animal tissues ■ Plant tissues ■ Animal tissues	
3.	The Flower	67–76
	<ul> <li>Structure of a bisexual flower  Complete and incomplete flowers</li> <li>Essential and non-essential whorls of a flower  Placentation  Inflorescence</li> </ul>	
4.	Pollination and Fertilisation	77–90
	<ul> <li>Pollination</li> <li>Types of pollination</li> <li>Agencies of cross-pollination</li> <li>Fertilisation</li> </ul>	
5.	Seed – Structure and Germination	91–108
	<ul> <li>Structure of a seed Types of seeds Functions of cotyledons Seed germination</li> <li>Conditions for seed germination</li> </ul>	
6.	Respiration in Plants	109–122
	<ul> <li>Aerobic respiration</li> <li>Process of respiration</li> <li>Gaseous exchange in plants</li> </ul>	
7.	Diversity in Living Organisms	123-162
	■ What is the basis of Classification? ■ Importance of Classification ■ Five Kingdom Classification	ation
8.	Economic Importance of Bacteria and Fungi	163–174

Types of nutrition
 Components of food
 Balanced diet
 Malnutrition
 Deficiency diseases

175-190

■ Bacteria ■ Useful role of bacteria ■ Harmful role of bacteria ■ Fungi ■ Useful role of fungi

Harmful role of fungi

Nutrition

9.

X ICSE Biology – 9

## 10. Digestive System

<del>191-204</del>

- Digestive organs
   Different types of teeth
   Structure of a tooth
   Absorption of food
- Assimilation of food

#### 11. Skeleton – Movement and Locomotion

205-218

- Functions of the skeleton
   Types of joints
   Disorders of joints
- A simple study of the work of muscles

#### 12. Structure and Functions of Skin

219-230

- Functions of the integument or skin Structure of the skin Derivatives of the skin
- Vasodilation and vasoconstriction in temperature regulation

## 13. Respiratory System

231-242

- Respiration
   Respiration in humans
   Mechanism of breathing
   Control of breathing rate
- Gas exchange in lungs
   Transport of gases
   Respiratory volumes
- Effect of altitude on breathing

## 14. Health and Hygiene

243-268

- Significance of health
   Value and benefits of good health
   Disease
   Vectors (disease carriers)
- Diseases caused by bacteria
   Disease caused by viruses
   Diseases caused by protozoans
- Diseases caused by helminths

#### 15. Aids to Health

269-280

- Entry of microbes in our body
   Antibodies
   The immune system
   Vaccination
   Serum
- Antitoxins
   Antibiotics
   Health aids
   Health organisations
   Role of red cross
- World Health Organization (WHO)

## 16. Waste Generation and Management

281-290

- Sources of waste
   Methods of safe disposal of waste
   Methods of garbage disposal
- Use of electrostatic precipitators and scrubbers
   Biodegradable wastes
- Non-biodegradable wastes
   Waste prevention and management