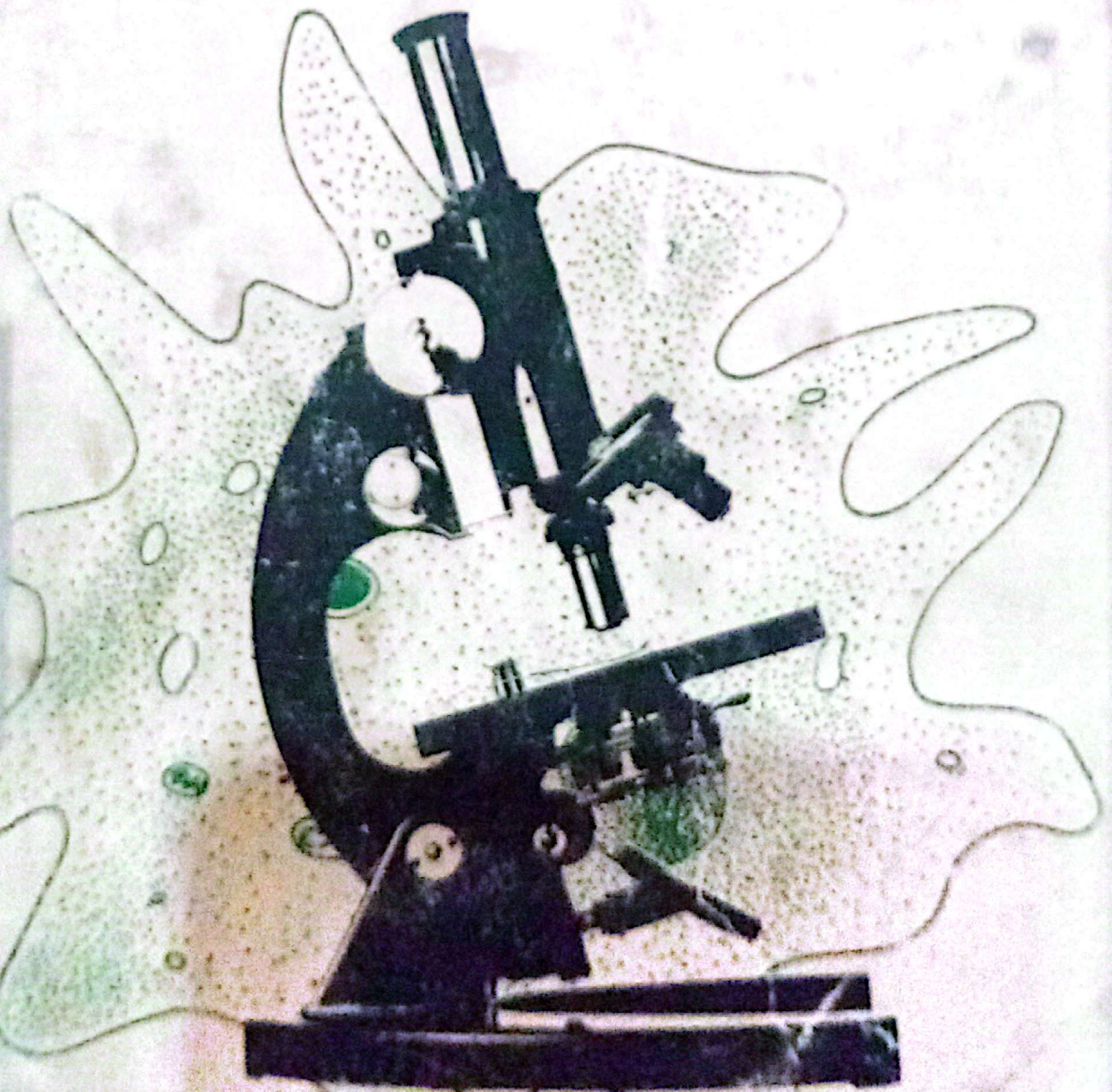
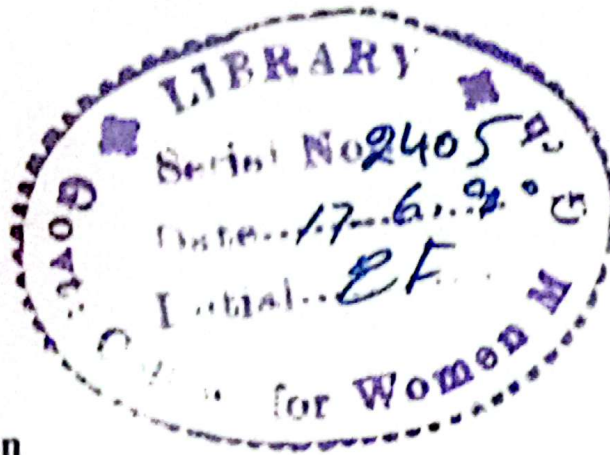


TEACH YOURSELF BOOKS.

J. R. Hall

BIOLOGY





Contents

Introduction	ix
1 The Flowering Plant	13
The factory organism. Raw materials. The source of energy. Products. The release of energy. Structure and functions. Patterns of growth. The factory that manufactures new factories	
2 The Mammal	57
The automobile organism. The heart and circulatory system. The lymphatic system. Foods and digestion. Release of energy. Regulation and control. The nervous system. Cells, tissues and organs. Reproduction	
3 Biochemistry and the Cell	107
What organisms are made of. Carbohydrates. Proteins. Enzymes. Biochemical systems. The function of the nucleus and nucleic acid. Chromosome number	
4 The Variety of Organisms	134
Phylum Protozoa. Phylum Algae. Phylum Bryophyta. Phylum Pteridophyta. Phylum Spermatophyta. Phylum Coelenterata. Phylum Platyhelminthes. Phylum Mollusca. Phylum Echinodermata. Phylum Annelida. Phylum Arthropoda. Phylum Chordata. Fungi. Bacteria. Viruses	

vi Contents

5 Ecology 207

Natural communities. Food chains. The circulation of material in nature. Utilisation of natural resources. Effect of physical and biological factors on the environment. The struggle for life—population control

6 Genetics 237

Mendel's breeding experiments. Human heredity. The practical application of genetics

7 Evolution 252

The evidence for evolution. The mechanism of evolution. Human evolution

8 Animal Behaviour 273

Automatic behaviour. Learned behaviour. Learning in humans

Further Reading 288

Glossary 290

Index 299