

CONTENTS

1. The Plant Kingdom; Its Distribution and Importance	1
2. Plant Cells	19
3. Coloration in Plants: Plant Pigments	34
4. Leaves	42
5. Metabolism; the Anabolic Phase; Food Synthesis	74
6. Roots	93
7. Absorption of Water and Inorganic Substances	117
8. Stems	135
9. Growth and Movement	180
10. Flowers	213
11. Fruits, Seeds, and Seedings	237
12. Metabolism; the Catabolic Phase; Digestion, Respiration, Fermentation	267
13. Heredity	289
14. Plant Taxonomy;; Divisions of the Plant Kingdom	311
15. Algae	323
16. Bacteria, Viruses, Actinomycetes, Slime Molds	366
17. Fungi	376
18. Liverworts and Mosses	423
19. Vascular Plants: the Lower Groups	448
20. Vascular Plants; the Higher Groups; Seed Plants	481
Glossary	517
Index	545