

CONTENTS

CHAPTER	
I. INTRODUCTON	1
II. THE PLANT AND ITS ENVIRONMENT	4
III. THE CELL	18
IV. THE LEAF	29
V. ASSIMILATION AND USE OF MATERIALS	48
VI. WATER IN RELATION TO LEAVES	82
VII. THE STEM	116
IX. GROWTH AND RESPONSES	178
XII. PLANT GEOGRAPHY	237
XIII. TH EFLOWER	268
XIV. THE FRUIT AND THE SEED	294
XV. HEREDITY	326
XVI. DIVISIONS OF THE KKPLANT KINGDOM	361
XVII. BACTERIA	371
XVIII. SCHIZOPHYTA	391
XIX. FLAGELLATES, THE ANCESTORS OF ALGAE AND HIGHER PLANTS	406
XX. CHLOROPHYTA, THE GREEN ALGAE	413
XXI. CHRYSOPHYTA AND PYRROPHYTA, SOME YELLOW-GREEN AND BROWN THALLOPHYTES	508
XXII. PHAEOPHYTA (BROWN ALGAE)	525
XXIII. RHODOPHYTA (RED ALGAE)	548
XXIV. MYXOMYCETES (SLIME MOLDS)	566
XXV. FUNGI (PHYCOPHYTA)	567
XXVI.DIVISION BRYOPHYTA	653
XXVIII. DIVISION SPERMATOPHYTA	753
XXIX. PALEOBOTANY	822
XXX EVOLUTION	839
INDEX	851