

CONTENTS

PART I

THE GENERAL PHYSIOLOGY OF THE CELL

I. THE SCOPE OF PHYSIOLOGY	13
II. COLLOIDS AND PROTOPLASM	23
III. OSMOTIC PRESSURE AND THE WATER RELATIONS OF THE PLANT	50
IV. PERMEABILITY	78
V. TRANSPIRATION	109
VI. THE ASCENT OF SAP	155

PART II

METABOLISM

VII. CATALYSIS AND ENZYMES	167
VIII. PHOTOSYNTHESIS	188
IX. THE FATS	252
X. NITROGEN METABOLISM	278
XI. ASH	309
XII. THE TRANSPORT OF SOLUTES	320
XIII. RESPIRATION	337

PART III

GROWTH, REPRODUCTION AND IRRITABILITY

XIV. GERMINATION	393
XV. GROWTH	409
XVI. REPRODUCTION	444
XVII. IRRITABILITY AND PLANT MOVEMENTS	475
APPENDIX	517
BIBLIOGRAPHY	523
AUTHORS INDEX	527
SUBJECT INDEX	533