CONTENTS

| PREFACE TO THE FOURTH EDITION | V11 |
|--|------|
| PREFACE TO THE THIRD EDITION | ix |
| PREFACE TO THE SECOND EDITION | xi |
| PREFACE TO THE FIRST EDITION | xiii |
| PART I | |
| THE STRUCTURE AND PHYSIOLOGY OF SEED-BEARING PLANTS | |
| CHAPTER | |
| I. INTRODUCTION | 1 |
| II. THE PLANT BODY | 20 |
| III. THE CELL | 47 |
| IV. THE STEM | 92 |
| V. THE ROOT | 154 |
| VI. THE LEAF | 180 |
| VII. THE FLOWER | 230 |
| VIII. FRUIT, SEED, AND SEEDLING | 268 |
| IX. RELATION OF THE PLANT TO ITS ENVIRONMENT | 309 |
| PART II | |
| A SURVEY OF THE PLANT KINGDOM WITH PARTICULAR EMPHASIS UPON | |
| DEVELOPMENT, REPRODUCTION, AND RELATIONSHIPS, INCLUDING ALSO | 1 |
| ACHAPTER ON EVOLUTION AND HEREDITY | |
| X. INTRODUTION | 337 |
| XI. THE THALLOPHYTA-ALGAE | 344 |
| XII. THE THALLOPHYTA-FUNGI | 388 |
| XIII. EMBRYOPHYTA-THE BRYOPHYTA (LIVERWORTS AND MOSSES) | 463 |
| XIV. EMBRYOPHYTA-THE PTERIDOPHYTA (FERNS AND FERN ALLIES) | 497 |
| XV. EMBRYOPHYTA_THE SPERMATOPHYTA (SEED PLANTS) | 532 |
| XVI. EVOLUTION AND HEREDITY-FOSSIL PLANTS | 582 |
| APPENDIX: BOOKS FOR REFERENCE AND COLLATERAL READING | 613 |
| GLOSSARY | 619 |
| INDEX | 635 |