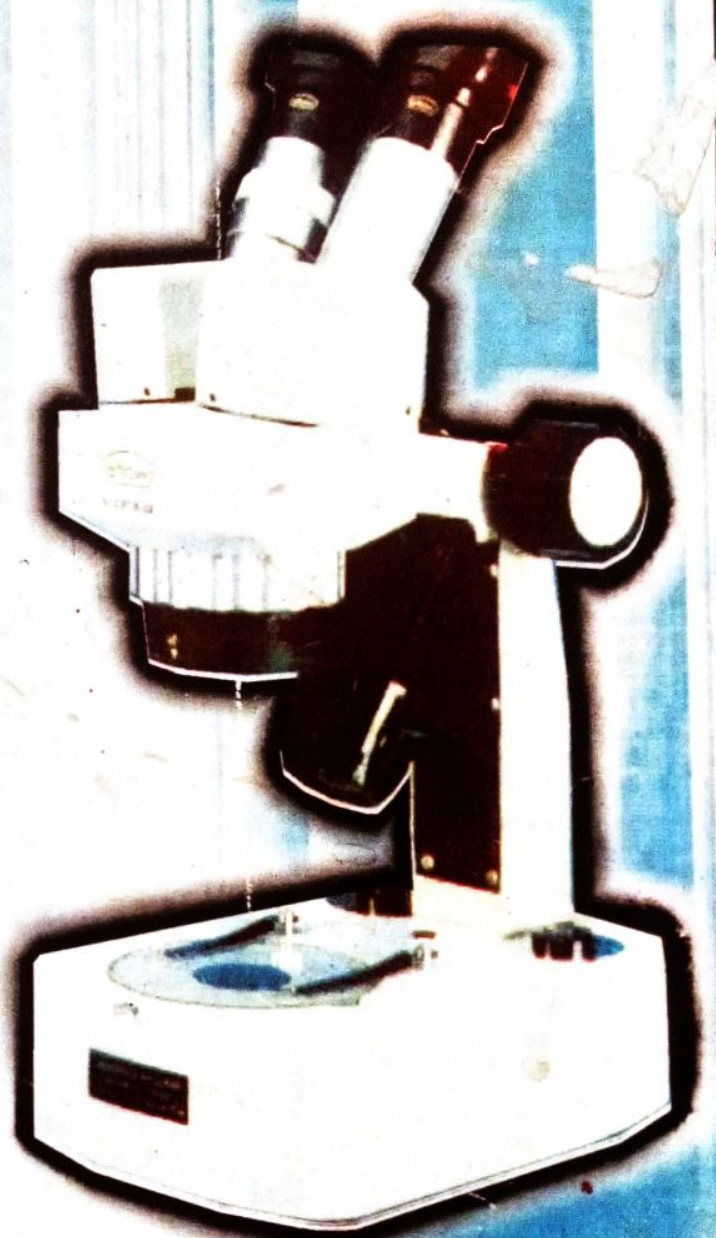


**NEW
GENERATION
PRACTICAL
BIOLOGY**



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NEW GENERATION PRACTICAL BIOLOGY

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DEDICATION

This textbook is dedicated to my late sister

Mrs. Comforts Omolola Oyekunle

nee Adebola

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PREFACE

The aim of this book is to provide a good biology practical text book for all ordinary level biology syllabi (WASSCE, NABTEB, NECO, IJMB, and JAMB). However students in higher Institutions may find some of the parts very useful.

For the sake of practical convenience, I have decided to divide this book into parts. Introductory notes have been written to each part of the book to give the picture of what it contains. Part one introduces the beginners into the field of practical. The second part deals with a wide range of biochemical and physiology experiments. Bearing in mind that practice in answering questions is an essential part of learning process, questions are therefore provided at the end of each discussed experiment. The third and fourth parts aim at helping the students to understand and be able to draw well labelled diagrams of structures and forms of plants and animals. It is essential that student should draw exactly what he sees in his preparations and that he should not copy diagrams from any book in order to avoid distortion of scientific experimental facts.

Other parts covered are: The cell; Ecological drawings; Genetics, Variation and Evolution. It is also discovered necessary to include some exercise on 'Test of practicals' for students who may want to write any of the alternative to practical examination. However, students must have a knowledge of the contents of the earlier parts. The teachers will find the materials provided in the appendix very useful in setting up practical and standard laboratory.

This book is essentially a laboratory manual, and is of course intended for use in conjunction with the usual textbook. Therefore the inclusion of elaborate and unnecessary details which make reading long and tedious are deliberately avoided.

Lastly, I expect, anticipate and indeed welcome constructive criticisms in respect of errors of omission and commission that may be discovered in the course of going through this work.

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