

The approach is one used by many college lecturers: microorganisms and their study, including scope, history, tools and systematic study of bacteria; biology of lower protists, including morphology of bacteria, groups of bacteria, viruses, bacterial metabolism variation and genetics of bacteria, growth and death of bacteria, environmental effect on bacteria, inhibition and killing of microorganisms; higher protists, including protozoa, algae, molds and yeasts; ecology of infectious disease, including normal and pathogenic body flora, infection and disease, resistance and immunity, diseases transmitted by direct contact, and foodborne and waterborne diseases, diseases transmitted by inoculation, and airborne diseases; environmental and applied microbiology, including microorganisms in their natural habitats, microbiology of foods and dairy products, industrial microbiology.

The level of coverage—especially that of bacterial metabolism and microbial genetics—is adequate for the initial course in the field. Although not profound, the book should be preferred by many.

Dolores Elaine Keller
Pace University
Pleasantville, New York

INTRODUCTORY LABORATORY MANUAL OF MICROBIOLOGY FOR HEALTH RELATED PROFESSIONS

by the Faculty, Department of Microbiology, Brigham Young University. 2nd ed., 1977. Burgess Publishing Company (7108 Ohms Lane, Minneapolis, Minnesota 55435). 105 p. Price not given.

The authors have developed fifteen laboratory exercises designed for a course in introductory microbiology for students majoring in dental hygiene, nursing, physical therapy, and other health related professions. The first exercises emphasize basic microbiological techniques and provide background for later exercises more directly related to health care. Materials are oriented toward laboratory procedures and are highly structured. Each exercise is organized into sections containing an overview, materials required, procedures to be followed, results, and questions. However, a list of references is not included. Instructions are clear and to the point and numerous drawings, diagrams, and charts are included. A spiral binding allows the manual to be opened flat for easy use. The authors state that the primary purpose of the manual is to acquaint students with some common

types of microorganisms and to provide students with an opportunity to learn basic bacteriological techniques and procedures used in medicine. Completion of all exercises in this manual should accomplish this goal.

Melton E. Golmon
Northwestern University Medical School
Chicago, Illinois

Physiology

KIMBER - GRAY - STACKPOLE'S ANATOMY AND PHYSIOLOGY

by Marjorie A. Miller, Anna B. Drakontides, Lutie C. Leavell. 17th ed., 1977. Macmillan Publishing Company, Inc., (866 Third Avenue, New York, 10022) 659 p. Price not given.

The true understanding of human functions must be based on a thorough knowledge of body structure, both microscopic and macroscopic. This textbook excels in presenting both aspects of available information. The book, primarily intended for nursing and paramedical disciplines, is outstanding in its approach and would be a very good choice for any college class in these subjects. It would be appropriate as well

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The organization of the material is excellent; each chapter begins with a brief outline of its contents and a short paragraph on its fundamental importance. Each chapter contains explicit detail and current information. A beautifully outlined summary closes each chapter. It is doubtful that any one would do it, but a good course could be made using just these chapter summaries. In addition to light, electron, and scanning electron micrographs, there are many fine drawing and numerous charts. Four full-size natural color plates of important anatomical relationships are included.

The preface states "1977 revised editions of the Teachers' Guide, Workbook and Laboratory Manual (by the same authors) and Test Manual accompany this seventeenth edition." The books were not, however, sent for review, but if they are of the same caliber as the book, then the whole collection would be a superior choice.

Jane W. Lusk
Starkville High School
Starkville, MS

ANATOMY AND PHYSIOLOGY WORKBOOK AND LABORATORY MANUAL

by Anna B. Drakontides, Marjorie A. Miller, and Lutie C. Leavell. 2nd ed. 1977. Macmillan Publishing Company, Inc. (866 Third Avenue, New York 10022). 238 p. Price not given.

This is one of the finest workbook and laboratory manuals available. The text is divided into four major sections, which can be adapted to the needs of either one- or two-semester courses. The material can be used in secondary education and is especially designed for the beginning student of anatomy and physiology at the college level. The people of the allied health professions will especially enjoy the exercises.

The laboratory requires a minimum of equipment, yet allows for an enriching learning experience for the student. Each exercise has an introduction, purpose, materials, and directions section. Features which the instructor and especially the students will find useful are the photomicrographs of representative tissues and endocrine organs. Photographs

show body movements to facilitate learning the flexion, extension, abduction, and adduction at the joints. Teaching and learning muscles in any anatomy course presents its problems to teacher and student alike. This is alleviated by the addition of human photographs of surface anatomy of the anterior view of chest, posterior view of back, upper extremity, lower extremities, and full anterior and posterior views. All are augmented by excellent line drawings for correlation and labelling. Additional drawings of the face and thorax muscles are superimposed on the skeletal system. The photographs of the sheep heart are clear.

The majority of exercises are followed by study questions and diagrams for labelling. For those who want additional help in learning the nervous system, the exercises and diagrams will be invaluable.

The workbook is three-hole punched and perforated. The drawings and photographs are well done and should be the strongest asset of the book from the student viewpoint. One criticism of the photographs of the rat interior organs is that they are not distinct and clear. An