

school teacher this fact will make it a handy reference.

The introductory unit has been expanded considerably to include new material on the origin of life, physiology of the cell, and something on the physical basis of life. Most of the book is devoted to a phylogenetic review of the animal kingdom. Genetics and evolution, and ecology and adaptation are the last two units. The appendix contains quite useful and unique information of the history of zoology. Each chapter has a liberal bibliography. Illustrations are, on the whole, of excellent quality.

It is obvious that the author wrote the book to be taught for there are many touches of a real teacher, but the book is bulky, and the sheer amount of information it contains is awesome.

A PRACTICAL COURSE IN EXPERIMENTAL ZOOLOGY, R. B. Clark, 206 pp., \$5.00, John Wiley and Sons, New York, 1966.

Professor Clark presents a compilation of experiments stressing various aspects of invertebrate zoology. The experiments presented in the manual vary in their nature and level of sophistication and are grouped into the following sections: hydrogen ion concentration, influence of temperature on biological activities, salt and water balance, electrolytes and biological activity, respiration, digestion, invertebrate neuro-

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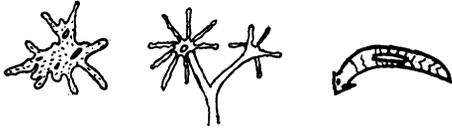
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muscular systems, vertebrate neuromuscular systems, sense organs, hormones, and behavior. Each section and experiment is preceded by a brief discussion of the more important concepts stressed in each experiment or group of experiments. The author has placed considerable emphasis on the student obtaining valid results and interpreting them. The experimental procedures are stated briefly, as are the directions for handling the results. The student is told more-or-less specifically what to do but ample freedom is given to allow the student to use his own imagination.

Although the manual is useful, like many other laboratory manuals it was designed for use in a particular course, and whether it would be suitable for comparable courses at other institutions would depend upon the instructors involved.

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THE AFRICAN LION, Mervyn Cowie, 96 pp., Golden Press, New York, 1966.

This is a companion book to the *African Elephant*. Authenticity is assured by its author having been director of the Royal National Parks of Kenya since 1946. The illustrative material is of top quality, both in color and black and white. It is too bad that this volume does not contain a chapter on population and distribution as does the book on the African elephant in the same series. The chapter on "Lion Men and Witchcraft" seems somewhat gratuitous in terms of the general excellence of the rest of the text. There are minor textual errors such as crediting the remarkable vision of the lion in darkness as causing the lions eyes to reflect light, which seems somehow to reverse cause and effect. There is a tendency toward anthropomorphism into which the author slips occasionally as when crediting the lions' leaving the wildlife sanctuary to a matter of simply being bored with the monotony of their peaceful life or with knowing perfectly well that they are not tolerated in the midst of native cattle.

These minor textual flaws do not detract from the general intellectual tone of this generally well written work which will provide valuable insight on the African Lion in its native habitat to both secondary and collegiate audiences.

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A POCKET GUIDE TO BIRDS, Allan D. Cruickshank, 216 pp., 60¢, Washington Square Press, New York, 1953.

One of the classics in the Pocket Guide identi-