

molecules, the repair of radiation damage, the mechanism of recombination, the mode of replication of viral single-stranded DNA and RNA molecules, the provirus state and its control, genetic regulation of biosynthesis, and the nature and behaviour of bacterial plasmids. All these topics are treated in detail and there is hardly a chapter, except some of the introductory ones, which has not been extensively rewritten.

The subject-matter in this edition has been dealt with in seven parts, viz., I. An Introduction to Genetics; II. The Elements of Genetic Analysis; III. The Integration of Genetics and Biochemistry; IV. The Analysis of Genetic Fine Structure in Micro-organisms; V. Mutation in Bacteria; VI. The Physico-Chemical Mechanisms of Heredity; and VII. The Physiology and Genetics of Bacteriophage.

C. V. R.

Physical Chemistry. By F. Daniels and R. A. Alberty. (Asia Publishing House, Calicut Street, Ballard Estate, Bombay-1), Pp. 671. Price Rs. 18.00.

The popularity of this text-book on Physical Chemistry among degree students of chemistry in Indian Universities can be judged from the several reprints that it has gone through since its first Indian edition in 1958. It is a comprehensive modern presentation of physical chemistry, easy to follow and understand. The new material includes such subjects as high temperature equilibrium, fundamentals of statistical mechanics, microwave spectroscopy, high polymers, enzyme catalysis, and nuclear chemistry. Each chapter contains a large number of problems, some typical ones being worked out in the text.

A. S. G.

Animal Gametes (Female). By Vishwa Nath. (Asia Publishing House, Calicut Street, Ballard Estate, Bombay-1), 1968. Pp. 195 + 200 plates. Price Rs. 60.00.

The author, who has made a lifetime study of the subject, extending over 40 years, has brought out two monographs which will remain as definitive addition to the literature on cytology. The earlier monograph on *Animal Gametes (Male)* published in 1965 dealt with animal spermatogenesis. In the present volume the author gives a comprehensive morphological and cytochemical account of yolk formation in oogenesis of a large variety of animal groups.

The systematic treatment of the material includes nucleolar emissions and their role in yolk formation, the yolk nucleus, Golgi apparatus, vacuome and lipids in oogenesis, mitochondria in oogenesis, compound yolk and its chemical composition and origin. A special feature of the presentation is the attempt at correlation of findings by the old classical techniques and the later cytochemical and the latest electron-microscopic techniques. The 200 descriptive full-page plates add value to this exhaustive monograph useful to students and research workers in cytology. A. S. G.

ANNOUNCEMENTS

Second Conference on Photographic Science and Technology

The Hindustan Photo Films Manufacturing Company Limited, Ootacamund, proposes to hold a Two-day Conference on 6 and 7 October 1969 at Indunagar, Ootacamund-5.

Original or review papers dealing with any aspect of photographic science and technology are invited for presentation at the Conference.

Further information can be had from the Conference Secretary Dr. S. K. Jain.

Award of Research Degree

Andhra University has awarded the Ph.D. degree to the following on subject mentioned against each:

Sri. P. Brahmananda Rao (Nuclear Physics);
Sri. Ch. Suryanarayana (Nuclear Physics);
Sri. A. V. B. Sankaram (Chemistry);
Sri. V. R. R. M. Babu (Geology).

M.S. University of Baroda has awarded the Ph.D. degree in Biochemistry to Sri. Pravinbhai Mathurbhai Amin; and Ph.D. degree in Geology to Sri. Mukund Ganesh Hardas.

Utkal University has awarded the Ph.D. degree in Botany to Sri. Basant Kumar Nanda.

Sri. Venkateswara University has awarded the Ph.D. degree in Mathematics to Mrs. Syamala S. Rau.

Books Received

Annual Review of Physiology (Vol. 31). By V. E. Hall, A. C. Giese and R. R. Sonnen-schein. (Annual Reviews, Inc., 4139, El Camino Way, Palo Alto, California), 1969. Pp. x + 787. Price: \$ 8.50 in U.S.A.; \$ 9.00 elsewhere.
Skysighting: Photography for Amateur Astronomers. By R. N. Mayall and M. W. Mayall. (Dover Publications, Inc., 180, Varick Street, New York 10014), 1968. Pp. xvii + 186. Price \$ 2.50.