

# Practical Chordate Zoology

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for zoology degree level students a few chapters e g microscope and chromatography have been included afresh besides these a few dissections several museum specimens and permanenet slides have also been added at appropriate places

the book provides discussion on all aspects of invertebrates as covered in practical zoology beginning with general techniques of preparation of cultures of protozoa microscopic slides and laboratory regents it also covers in tabular and detailed form recent classification of various invertebrate phyla with examples of each order or suborder wide coverage of each phylum and diagrams of major and minor dissections make the book equally useful for both undergraduate and postgraduate students

this revised edition of the book a manual of practical zoology chordates is an indispensable guide for students and educators in zoology offering a comprehensive exploration of the chordata phylum through a blend of classical and contemporary laboratory techniques this book provides detailed coverage across seven

1 introduction to phylum chordata 2 study of museum specimens 3 wonder vertebrate animals 4 preparation of fixatives stains and other reagents 5 general method of microscopic preparations 6 microtomy 7 preparations of permanent stained slides mountings 8 study of histological slides 9 study of embryological slides 10 comparative osteology study of bones 11 dissections major and minor 12 experimental biochemistry and physiology 13 some important histochemical tests 14 experimental cytology 15 study of drosophila and human chromosomes 16 experimental ecology 17 experimental endocrinology 18 practicals on evolution and animal behaviour 19 viva voce

product dimensions 21x15x3 cm 10 edition contents contents 1 introduction 2 cellular basis of development 3 dna rna and protein synthesis 4 male gonads and spermatogenesis 5 female gonads and oogenesis 6 semination ovulation and transportation of gametes 7 reproductive cycles fertilization 8 parthenogenesis 9 cleavage and blastulation nucleus and cytoplasm in development 10 fate maps and cell lineage gastrulation neurulation morphogenesis and growth 11 embryogenesis of a simple ascidian embryogenesis of amphioxus 12 embryogenesis of frog 13 detailed account of organogenesis of frog embryogenesis of chick 14 early embryogenesis of eutherian mammal 15 rabbit placenta and placentation 16 gradient theory embryonic inductions and competence 17 differentiation asexual reproduction and blastogenesis 18 regeneration 19 metamorphosis 20 teratogenesis 21 birth control 22 impotency sterility artificial insemination test tube baby and gift glossary 23 selected reading 24 index

this book explains the essential principles processes and methodology of cell biology biochemistry and molecular biology it reflects upon the significant advances in cell biology such as motor proteins intracellular traffic and targeting of proteins signalling pathways receptors apoptosis aging and cancer it also discusses certain current topics such as history of life origin of life archaeobacteria split genes exon shuffling gene silencing rna interference mirna sirna and recombinant dna technology etc

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