

(xiv) Immunology

It is the study of immune system of animals, which defends the body against invading microbes.

(xv) Entomology

It is the study of insects.

(xvi) Pharmacology

It is the study of drugs and their effects on the systems of human body.

(xvii) Molecular Biology

It deals with the study of molecules of life; e.g. water, proteins, carbohydrates, lipids and nucleic acids. **OR** It deals with the structure of organisms, the cells and their organelles at molecular level.

Q6. What are Parasites?

Ans. Parasites are the organisms that take food and shelter from living hosts and in return, harm them. e.g., viruses, bacteria and parasitic worms.

Q7. What are the major biological issues today?

Ans. Human population growth, infectious diseases, addictive drugs and the pollution are the major biological issues today.

Q8. Describe the relationship of biology to other sciences.

Ans. Introduction

The interrelationship among different branches of science cannot be denied. Biological informations relate to the other branches of science as well. For example, when studying the process of movement in animals, the biologists have to refer to the laws of motion in Physics. This forms the basis of interdisciplinary sciences.

(i) Bio-physics

It deals with the study of the principles of physics, which are applicable to the biological phenomena.

Example Similarity between the working principles of lever in Physics and limbs of animals in Biology.

(ii) Bio-chemistry

It deals with the study of the Chemistry of different chemical compounds and processes occurring in living organisms.

Example The study of basic metabolism of photosynthesis and respiration involves the knowledge of Chemistry.

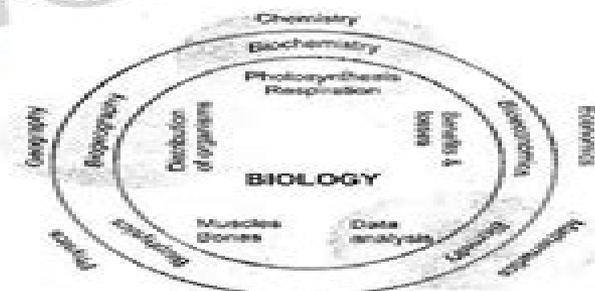


Figure 1.1: Relationship of biology with other sciences.

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N Colangelo



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Science for Ninth Class Part 1 Biology Lakhmir Singh & Manjit Kaur, A series of books for Classes IX and X according to the CBSE syllabus and CCE Pattern *BIOLOGY OF CHORDATES* PANDEY, B.N.,MATHUR, VARTIKA,2018-03-28 Based on the integrated and holistic approach the book systematically and comprehensively covers a general account of taxonomical morphological anatomical and physiological features of chordates The text does not restrict discussion only to a representative genus in each class but also provides knowledge of other important genera and gives their general account and comparative features to help students understand animal diversity in the phylum Besides the type study the book also deals with the developmental and ecological aspects of the genera discussed The book is intended to fulfill the curriculum need of B Sc Zoology Life Sciences Biological Sciences and Animal Sciences as well as M Sc Zoology students for their core course on chordata chordates Additionally the students appearing for various competitive examinations and entrance test for postgraduate courses in the related fields will find this book useful KEY FEATURES Incorporates the topics of modern research such as Fish as Biocontrol Agents Mimicry in Birds Nesting and Brooding Behaviour of Birds and so on Compares important genera of the class morphological anatomical and adaptive features Well illustrated coloured diagrams with meticulous details and labelling for clear understanding of anatomy Important information nested in boxes points to remember and classification in the form of flow charts add strength to each chapter Provides a variety of pedagogically arranged interactive exercises for self assessment from fill in the blanks true false statements give reasons to MCQs Also the readers can check their answers online at www.phindia.pandey.mathur **TEXT BOOK OF MEDICINAL CHEMISTRY-II** Dr. Rajat Vaishnav, Mithilesh K. Narware, Racha Umadevi, Prof (Dr) Afroze Alam, Prof. (Dr.) Bhoomika, Miss Prity Mondal,2026-02-28 The Text Book of Medicinal Chemistry II is a well structured and comprehensive resource designed to provide an in depth understanding of the chemical and pharmacological aspects of therapeutically important drugs The book systematically covers major drug classes including antihistaminic agents antineoplastic agents anti anginal drugs diuretics antihypertensive agents anti arrhythmic drugs anti hyperlipidemic agents coagulants and anticoagulants drugs used in congestive heart failure endocrine drugs antidiabetic agents and local anesthetics Each chapter begins with clear definitions classification and detailed mechanisms of action followed by a thorough discussion of individual drugs with emphasis on chemical structure structure activity relationship metabolism and therapeutic relevance Special attention is given to clinically important agents such as proton pump inhibitors calcium channel blockers anticancer drugs steroid hormones oral hypoglycemics and local anesthetics The inclusion of stereochemistry nomenclature and metabolic pathways enhances conceptual clarity for students The content is presented in a logical examination oriented manner making complex medicinal chemistry concepts easy to understand Overall this textbook effectively bridges chemistry with pharmacological action and clinical use serving as an essential learning tool for pharmacy students and a valuable reference for teachers and

professionals in medicinal chemistry **Chordate Zoology** P.S.Verma,2010-12 FOR B Sc B Sc Hons CLASSES OF ALL INDIAN UNIVERSITIES AND ALSO AS PER UGC MODEL CURRICULUM Contents CONTENTS Protochordates Hemichordata 1 Urochordata Cephalochordata Vertebrates Cyclostomata 3 Agnatha Pisces Amphibia 4 Reptilia 5 Aves Mammalia 7 Comparative Anatomy Integumentary System 8 Skeletal System Coelom and Digestive System 10 Respiratory System 11 Circulatory System Nervous System 13 Receptor Organs 14 Endocrine System 15 Urinogenital System 16 Embryology Some Comparative Charts of Protochordates 17 Some Comparative Charts of Vertebrate Animal Types 18 Index

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Need this Stuff! Or Do I? Stephen Piscitelli,1997

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