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Plants produce a considerable number of structures of one kind, like leaves, flowers, fruits, and seeds, and this reiteration is a quintessential feature of the body plan of higher plants. But since not all structures of the same kind produced by a plant are identical—for instance, different branches on a plant may be male or female, leaf sizes in the sun differ from those in the shade, and fruit sizes can vary depending on patterns of physiological allocation among branches—a single plant genotype generally produces a multiplicity of phenotypic versions of the same organ. Multiplicity in Unity uses this subindividual variation to deepen our understanding of the ecological and evolutionary factors involved in plant-animal interactions. On one hand, phenotypic variation at the subindividual scale has diverse ecological implications for animals that eat plants. On the other hand, by choosing which plants to consume, these animals may constrain or modify plant ontogenetic patterns, developmental stability, and the extent to which feasible phenotypic variants are expressed by individuals. An innovative study of the ecology, morphology, and evolution of modular organisms, Multiplicity in Unity addresses a topic central to our understanding of the diversity of life and the ways in which organisms have coevolved to cope with variable environments.

BASIC CONCEPTS IN BIOLOGY supplies a 650 page, introductory issues-oriented approach with enormous instructional power. This title has content identical to Starr's longer BIOLOGY, CONCEPTS AND APPLICATIONS, Sixth Edition, except for the omission of plant and animal physiology. The "Impacts, Issues" and "How Would You Vote?" features new to this edition make biology come alive. An "Impacts, Issues" case study opens each chapter focusing on a biology-related societal issue. Short films that expand on the issue are on the free Student CD. Each chapter's "How Would You Vote?" asks students to consider biology-related news, apply knowledge, cast a vote on the web and see voting tallies. The access codes that accompany all new copies provide online access to 1) BiologyNow, a learning tool that helps students assess their unique study needs through pretests, post-test and personalized learning plans; 2) InfoTrac, a library of full text articles; 3) vMentor, a live tutoring service and 4) "How Do I Prepare," a feature that allows students to review basic math, chemistry, and other skills that will help them more easily master introductory biology. And now with an MP3 download of this title, you don't have to lose prep time during a long commuteany MP3 player lets you or your students listen and review the text at the gym, in the library, at the office anywhere! Starr is the most successful author in non-majors biology because of her clear and engaging writing, trend-setting art, and unparalleled student and instructor media.

Essential reading for anyone interested in the African continent and the diversity of human history, this Very Short Introduction looks at Africa's past and reflects on the changing ways it has been imagined and represented. Key themes in current thinking about Africa's history are illustrated with a range of fascinating historical examples, drawn from over 5 millennia across this vast continent. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand.We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

By using an issues-oriented approach, the new edition of this respected text grabs student interest with real-life issues that hit home. This text includes new coverage and pedagogy that encourages students to think critically about hot-button issues and includes outstanding new features that take students beyond memorization and encourage them to ask questions in new ways as they learn to interpret data. Show students how biology matters Biology's connections to real life are reflected in every chapter of this new edition, beginning with opening Impacts, Issues essays a brief case study on a biology-related issue or research finding and is revisited throughout the chapter, reminding students of the real-world significance of basic concepts. Additional, online exercises promote critical thinking about issues students will face as consumers, parents, and citizens. Link concepts from chapter to chapter Links to Earlier Concepts appear near the Key Concepts, to help students remember what they've learned in earlier chapters and apply it to the new material to come. At the beginning of each section, students are reminded of the earlier link that is most appropriate for their current. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Sir Geoffrey Lloyd presents a cross-disciplinary exploration of the unity and diversity of the human mind. He discusses cultural variations with regard to ideas of colour, emotion, health, the self, agency and causation, reasoning, and other fundamental aspects of human cognition. He draws together scientific, philosophical, anthropological, and historical arguments in showing how our evident psychic diversity can be reconciled with our shared humanity.

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Strike the perfect balance between level of detail and accessibility! Written for a one-semester, non-Biology majors course, BIOLOGY TODAY AND TOMORROW is packed with applications that are relevant to a student's daily life. The clear, straightforward writing style, in-text learning support, and trendsetting art engage students and help them understand key concepts. The accompanying MindTap for Biology is the most engaging and easiest to customize online solution in Biology. Overall, this accessible introduction helps students develop an understanding of biology and the process of science while building the critical-thinking skills they need to become responsible citizens of the world. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Never HIGHLIGHT a Book Again! Virtually all of the testable terms, concepts, persons, places, and events from the textbook are included. Cram101 Just the FACTS101 studyguides give all of the outlines, highlights, notes, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanys: 9780495557920 .

The diversity of living forms and the unity of evolutionary processes are the focus of these essays. The collection helps form much of the basis of contempoary undertanding of evolutionary biology.

Explores the impact and inconsistancies of human evolution upon human nature, examining the physical, intellectual, cultural, and sexual aspects of human development and behaviors in the light of current scientific theory.

In Unity in Diversity, Randall J. Pederson critiques current trends in the study of Puritanism, and proposes a different path for defining Puritanism, centered on unitas and diversitas, by looking at John Downame, Francis Rous, and Tobias Crisp.

Answers critical thinking questions.

Biology for AP® courses covers the scope and sequence requirements of a typical two-semester Advanced Placement® biology course. The text provides comprehensive coverage of foundational research and core biology concepts through an evolutionary lens. Biology for AP® Courses was designed to meet and exceed the requirements of the College Board’s AP® Biology framework while allowing significant flexibility for instructors. Each section of the book includes an introduction based on the AP® curriculum and includes rich features that engage students in scientific practice and AP® test preparation; it also highlights careers and research opportunities in biological sciences.

This Study Guide both invites and requires students' active participation. And because it's organized to match sections in the text, it's very easy to use. As students respond to the questions, their understanding increases.

One of the best ways for your students to succeed in their biology course is through hands-on lab experience. With its 46 lab exercises and hundreds of color photos and illustrations, the LABORATORY MANUAL FOR NON-MAJORS BIOLOGY, Sixth Edition, is your students' guide to a better understanding of biology. Most exercises can be completed within two hours, and answers to the exercises are included in the Instructor's Manual. The perfect companion to Starr and Taggart's BIOLOGY: THE UNITY AND DIVERSITY OF LIFE, as well as Starr's BIOLOGY: CONCEPTS AND APPLICATIONS, and BIOLOGY TODAY AND TOMORROW, this lab manual can also be used with any introductory biology text. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This brief and specialized book was designed for general non-major biology courses and includes population ecology, communities, ecosystems, biosphere, human impact on the biosphere, and animal behavior. ECOLOGY AND BEHAVIOR covers Unit VII from BIOLOGY: THE UNITY AND DIVERSITY OF LIFE, 11th Edition. For the 11th edition of BIOLOGY: UNITY AND DIVERSITY OF LIFE, Cecie Starr and Ralph Taggart made it their goal to "solve" some of the toughest Introductory Biology course challenges. We introduce a new issues-oriented approach with engages students in current, motivating biological topics; a built-in cross-referencing system for key topics; and, most importantly, time-saving media resources for instructors.

By comparing qualitative research on commonalities, comparative research on diversity, and quantitative research on relationships among variables, this text is ideal for those studying all types of social issues.

Untangling Molecular Biodiversity presents a unique global framework to explain molecular and organismal biodiversity that is grounded in evolutionary genomics. This book will tackle important questions such as the origin of life, the emergence of biochemistry, the origin of viruses, the nature of the last universal common ancestor responsible for diversified life, the role of information and thermodynamics in evolution, the reason for having three cellular domains in life, and the centrality of modules in biology.This book will explore six themes: (1) Explanatory frameworks for biological organization; (2) Evolutionary patterns and biodiversity; (3) Molecular structure and evolutionary genomics; (4) A framework of persistence strategies that borrows from engineering and systems biology; (5) Use of this framework to explain diversity in the molecular world; and (6) Exploring the origin and evolution of cells and viruses.Consequently, this book represents a very unique collection of ideas that can attract the attention of a broad readership interested in life sciences/biology.

Science, engineering, and technology permeate nearly every facet of modern life and hold the key to solving many of humanity's most pressing current and future challenges. The United States' position in the global economy is declining, in part because U.S. workers lack fundamental knowledge in these fields. To address the critical issues of U.S. competitiveness and to better prepare the workforce, A Framework for K-12 Science Education proposes a new approach to K-12 science education that will capture students' interest and provide them with the necessary foundational knowledge in

the field. A Framework for K-12 Science Education outlines a broad set of expectations for students in science and engineering in grades K-12. These expectations will inform the development of new standards for K-12 science education and, subsequently, revisions to curriculum, instruction, assessment, and professional development for educators. This book identifies three dimensions that convey the core ideas and practices around which science and engineering education in these grades should be built. These three dimensions are: crosscutting concepts that unify the study of science through their common application across science and engineering; scientific and engineering practices; and disciplinary core ideas in the physical sciences, life sciences, and earth and space sciences and for engineering, technology, and the applications of science. The overarching goal is for all high school graduates to have sufficient knowledge of science and engineering to engage in public discussions on science-related issues, be careful consumers of scientific and technical information, and enter the careers of their choice. A Framework for K-12 Science Education is the first step in a process that can inform state-level decisions and achieve a research-grounded basis for improving science instruction and learning across the country. The book will guide standards developers, teachers, curriculum designers, assessment developers, state and district science administrators, and educators who teach science in informal environments.

The unity of science has been a widely discussed issue both in the philosophy of science and within several sciences. Reductionism has often been seen as the means of bringing the different sciences to a fundamental unity by reference to some basic science, but it shows many limitations. Multidisciplinarity and interdisciplinarity have also been proposed as methodologies for attaining unity without underestimating the diversity of the sciences. This volume starts with a clarification of the possible meanings of this unity and then discusses the features of the mentioned approaches to unity, evaluating the success and the shortcomings of the unification programme among different sciences and within a single science. Contents: The General Framework: What Does ''The Unity of Science'' Mean? (E Agazzi); The Unity of Disunity (J Faye); Sciences of Nature and Sciences of Man: On a Difference between Natural Science and the Interpretive Sciences of Man (F Collin); Natural Sciences and Human Sciences (G M Prosperi); Overcoming Reductionism: Complexity, Reductionism, and the Unity of Science (J Ricard); The Consilience Approach to the Unity of Science (B Kanitscheider); The Unity Within a Single Science: The Problem of Unity in a Single Field of Science (A Cordero); The Unity of Particle Physics and Cosmology? The Case of the Cosmological Constant (J Mosterin); Is Quantum Mechanics a Universal Theory ? (B d''Espagnat); and other papers. Readership: Graduate students and academics in the philosophy of science.

The perfect answer for any instructor seeking a more concise, meaninful, and flexible alternative to the standard introductory biology text.

A wide-ranging and original interpretation of Kant's Critique of Judgment.

A look into the phenomena of sex and reproduction in all organisms, taking an innovative, unified and comprehensive approach.

Written by a team of best-selling authors, BIOLOGY: THE UNITY AND DIVERSITY OF LIFE, 14th Edition reveals the biological world in wondrous detail. Packed with eye-catching photos and images, this text shows and tells the fascinating story of life on Earth, and engages readers with hands-on activities that encourage critical thinking. Chapter opening Learning Roadmaps help you focus on the topics that matter most and section-ending Take Home Messages reinforce key concepts. Helpful in-text features include a running glossary, case studies, issue-related essays, linked concepts, self--test questions, data analysis problems, and more. Known for a clear, accessible style, BIOLOGY: THE UNITY AND DIVERSITY OF LIFE, 14th Edition puts the living world of biology under a microscope for readers from all walks of life to analyze, understand, and enjoy! Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This book offers a comparative analysis of the institutional law of public international organizations, covering issues such as membership, institutional structure, decisions and decision-making, legal status, privileges and immunities. It has been designed to appeal to both academics and practitioners.

This guide supports the content required by the College Board and is aligned to the 15th Edition of Biology: The Unity and Diversity of Life. The guide includes correlations, lesson outlines, classroom discussions and activities, lab objectives, AP practice questions, review activities, post-exam activities

Renowned for its writing style and trendsetting art, BIOLOGY: THE UNITY AND DIVERSITY OF LIFE engages students with relevant applications and encourages critical thinking. The new edition offers a new Learning Roadmap in each chapter to help students gain a full understanding. Students are able to focus on key concepts, make connections to other concepts, and see where the material is leading. Helpful learning tools like the section-ending Take-Home Messages and the on-page running glossary ensure they grasp key points. Carefully balancing accessibility and the level of detail, the authors enable students to go beyond rote memorization and prepare them to make important decisions in life that require an understanding of biology and the process of science. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This accessible and timely book provides a comprehensive overviewof how to measure biodiversity. The book highlights newdevelopments, including innovative approaches to measuringtaxonomic distinctness and estimating species richness, andevaluates these alongside traditional methods such as speciesabundance distributions, and diversity and evenness statistics. Helps the reader quantify and interpret patterns of ecologicaldiversity, focusing on the measurement and estimation of speciesrichness and abundance. Explores the concept of ecological diversity, bringing newperspectives to a field beset by contradictory views andadvice. Discussion spans issues such as the meaning of community in thecontext of ecological diversity, scales of diversity anddistribution of diversity among taxa Highlights advances in measurement paying particular attentionto new techniques such as species richness estimation, applicationof measures of diversity to conservation and environmentalmanagement and addressing sampling issues Includes worked examples of key methods in helping people tounderstand the techniques and use available computer packages moreeffectively

International Series of Monographs on Pure and Applied Biology, Volume 1: Unity and Diversity in Biochemistry focuses on the advancements of processes, techniques, methodologies, and approaches involved in biochemistry. The publication first offers information on the constituents of the biosphere, modes of linkage by covalent bonds and macromolecules, general principles of biochemical energetics, and enzymes. The text then examines the destructive and non-destructive methods in modern biochemistry, priming reactions, and biosynthesis. Discussions focus on the mechanisms for the breakdown of amino acids, glycolysis and the hexosemonophosphate shunt, interrelations between priming reactions, respiratory chains, biochemical investigation and use of isotopes, and use of mutant strains micro-organisms. The manuscript takes a look at cellular topochemistry and regulation, aspects of biochemical diversity, inheritance of biochemical characteristics, and biochemical evolution. Topics include evolution of biochemical systems and constituents, control of biochemical characteristics by genes, biochemical differentiation of cells in a single organism, and factors which determine the velocity and path of enzymatic reaction chains. The selection is a dependable source of data for biochemists and readers interested in the different aspects of biochemistry.