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*Real-Life Science Mysteries* Feb 16 2022 Real-Life Science Mysteries puts an exciting new spin on scientific thinking by profiling real-life scientists, showing students in grades 5-8 ways they can use science in their everyday lives. From a biologist studying the habits of garter snakes in Manitoba, Canada, to a landscape designer and greenhouse owner in Ohio, the scientists in this book share information and solutions to the thorniest problems they face in their scientific careers. With the more than 30 activities included in Real-Life Science Mysteries, students will be required to try their hand at solving common science problems and performing experiments while learning about real people from diverse backgrounds, all of whom share a love for discovering how they work, why things work, and how they can work better. This book is perfect for any science classroom or young scientists looking to increase their knowledge! Grades 5-8

*A History of the Life Sciences* Jul 09 2021 A clear and concise survey of the major themes and theories embedded in the history of life science, this book covers the development and significance of scientific methodologies, the relationship between science and society, and the diverse ideologies and current paradigms affecting the evolution and progression of biological studies. The author discusses cell theory, embryology, physiology, microbiology, evolution, genetics, and molecular biology; the Human Genome Project; and genomics and proteomics. Covering the philosophies of ancient civilizations to modern advances in genomics and molecular biology, the book is a unique and comprehensive resource.

**STEM: Life Science** Dec 02 2020

*Foundations of Biophilosophy* Jul 29 2020 Over the past three decades, the philosophy of biology has emerged from the shadow of the philosophy of physics to become a respectable and thriving philosophical subdiscipline. In their book, the authors take a fresh look at the life sciences and their philosophy from a strictly realist and emergentist-naturalist perspective. They outline a unified and science-oriented philosophical framework that enables them to clarify many foundational and philosophical issues in biology. Thus, this book should be of interest to both life scientists and philosophers and is suitable as a textbook for courses at the advanced levels as well as for independent study.

*Astrobiology* Apr 18 2022 Astrobiology is an interdisciplinary field that asks profound scientific questions. How did life originate on the Earth? How has life persisted on the Earth for over three billion years? Is there life elsewhere in the Universe? What is the future of life on Earth? Astrobiology: Understanding Life in the Universe is an introductory text which explores the structure of living things, the formation of the elements for life in the Universe, the biological and geological history of the Earth and the habitability of other planets in our own Solar System and beyond. The book is designed to convey some of the major conceptual foundations in astrobiology that cut across a diversity of traditional fields including chemistry, biology, geosciences, physics and astronomy. It can be used to complement existing courses in these fields or as a stand-alone text for astrobiology courses. Readership: Undergraduates studying for degrees in earth or life sciences, physics, astronomy and related disciplines, as well as anyone with an interest in grasping some of the major concepts and ideas in astrobiology.

**Last Minute Intercollegiate MRCS Applied Basic Science Questions** May 27 2020 Features a combination of MCQs and Best of Five format questions, designed for the preparation of Applied Basic Science paper. Meant for last minute revision on the go, each question in this title is supported by a short concise answer covering the essential facts candidates need to know.

*Life Sciences and Space* Mar 05 2021

**Jumpstarters for Life Science, Grades 4 - 8** Mar 25 2020 Connect students in grades 4 and up with science using Jumpstarters for Life Science: Short Daily Warm-Ups for the Classroom! This 48-page resource covers life cycles, the diversity of life, and energy flow in living communities. It includes five warm-ups per reproducible page, answer keys, and suggestions for use.

*Leveled Texts for Science: Life Science* Jan 15 2022 With a focus on biology, a guide to using leveled texts to differentiate instruction in life sciences offers fifteen different topics with high-interest text written at four different reading levels, accompanied by matching visuals and comprehension questions.

**The Logic of Discovery** Oct 12 2021 Scientific research is viewed as a deliberate activity and the logic of discovery consists of strategies and arguments whereby the best objectives (questions) and optimal means for achieving these objectives (heuristics) are chosen. This book includes a discussion and some proposals regarding the way the logic of questions can be applied to understanding scientific research and draws upon work in artificial intelligence in a discussion of heuristics and methods for appraising heuristics (metaheuristics). It also includes a discussion of a third source for scientific objectives and heuristics; episodes and exemplars from the history of science and the history of philosophy. This book is written to be accessible to advanced students in philosophy and to the scientific community. It is of interest to philosophers of science, philosophers of biology, historians of physics, and historians of biology.

*Life in Science* Aug 30 2020 This book is a collection of stories, reflections and advice written by proficient scientists. They address the question of what doing science means to them, and describe attitudes and working practices that have proved effective and rewarding. The book is aimed in particular at young people who are attracted by science or already undertaking undergraduate studies, and who are considering making science their long-term profession. It will also be helpful and revealing to early-career scientists who are searching for their own best route to success. The book serves as a platform for experienced scientists to describe their original inclination, how that subjective disposition found its expression in their way of doing science, whether their expectations were met, and what achievements they can claim. But it is not restricted to success: contributors also share details of the limitations and failures they have encountered. Last but not least they describe how they see science now, how they think it will be in the near future, and what advice they would give to their much younger colleagues. Readers will appreciate the diversity of the individual paths shaped by different education, motivation, ambition, inclination, intuition, feeling, belief and eligibility. At the same time the stories confirm that science relies on a translation of this subjective level into an objective level, one that is shared and accepted by the international scientific community, and whose results are produced with a commonly accepted and fully rational scientific method of investigation.

**SET Life Science: Solved Exam Questions** Mar 29 2023 The present book "SET Life Science: Solved Papers" is specially developed for the aspirants of SET Life Sciences Examinations. This book includes previous solved papers SET Life Science papers of Maharashtra, Andhra Pradesh, Karnataka, Tamil Nadu, Kerala, Gujarat and Rajasthan. Main objective of this book is to develop confidence among the candidates appearing for SET examination in the field of Life Sciences. Both fundamental and practical aspects of the subject have been covered by solved questions. This book meets the challenging requirements of CSIR-NET, GATE, IARI, BARC and Ph.D entrance of various Indian universities.

*Asking Questions in Biology* Jan 23 2020

*Data Analysis for the Life Sciences with R* Apr 25 2020 This book covers several of the statistical concepts and data analytic skills needed to succeed in data-driven life science research. The authors proceed from relatively basic concepts related to computed p-values to advanced topics related to analyzing highthroughput data. They include the R code that performs this analysis and connect the lines of code to the statistical and mathematical concepts explained.

**Methods and Morals in the Life Sciences** Nov 01 2020 A presentation of tools from logic and ethics for assessing and creating scientific literature in biology and biomedicine. Examples from the life sciences illustrate the implementation of these tools in 45 brief case studies, and there is a more extensive case study with invited responses.

*Socio-Life Science and the COVID-19 Outbreak* Dec 26 2022 This open access book presents the first step towards building socio-life science, a field of science investigating humans in such a way that both social and life-scientific factors are integrated. Because humans are both living and social creatures, a human action can never be understood fully without knowing both the biological traits of a person and the social scientific environments in which he exists. With this consideration, the editors of this book have initiated a research project promoting a deeper and more integrated understanding of human behavior and human health. This book aims to show what can, and could be, achieved through our interdisciplinary project. One important product is the newly formed three-party collaboration between Pasteur Institut, Kyoto

University, and the Research Institute of Economy, Trade and Industry. Covering many different fields, including medicine, epidemiology, anthropology, economics, sociology, demography, geography, and policy, researchers in these institutes, and many others, present their studies on the COVID-19 pandemic. Although based on different methodologies, the studies show the importance of behavioral change and governmental policy in the fight against a huge pandemic. The book explains the unique genome cohort-panel data that the project builds to study social and life scientific aspects of humans.

Master the Scientific Method with Fun Life Science Projects Jan 03 2021 "Provides an introduction to the scientific method for young readers, using easy-to-do experiments about life science"--Provided by publisher.

Joint CSIR-UGC NET Nov 13 2021 This immensely valuable book of Solved Previous Years' Papers of Joint CSIR-UGC NET for Physical Sciences is specially published for the aspirants of Junior Research Fellowship (JRF) & Lectureship Eligibility Exam. The book comprises several Solved Previous Years' Papers for CSIR-UGC NET exams on the subject which are solved by Experts. Detailed Explanatory Answers have also been provided for selected questions in such a manner to be useful for both study and self-practice from the point of view of the exam. The book will help you understand the recent trends of exam and also serve as a true test of your studies & preparation for the exam. The book is highly recommended to improve your problem solving skills, speed and accuracy, and help you prepare well by practising through these papers to face the exam with Confidence, Successfully.

Chemistry for the Life Sciences Jul 21 2022 Presents short topics tied to numerical or conceptual ideas, reinforced with worked examples and questions Retaining the user-friendly style of the first edition, this text is designed to eliminate the knowledge gap for those life sciences students who have not studied chemistry at an advanced level. It contains new chapters on -

Zoology Multiple Choice Questions and Answers (MCQs) Sep 30 2020 Zoology Multiple Choice Questions and Answers (MCQs): Quiz & Practice Tests with Answer Key PDF (Zoology Question Bank & Quick Study Guide) includes revision guide for problem solving with hundreds of solved MCQs. "Zoology MCQ" book with answers PDF covers basic concepts, analytical and practical assessment tests. "Zoology MCQ" PDF book helps to practice test questions from exam prep notes. Zoology quick study guide includes revision guide with verbal, quantitative, and analytical past papers, solved MCQs. Zoology Multiple Choice Questions and Answers (MCQs) PDF download, a book covers solved quiz questions and answers on chapters: Behavioral ecology, cell division, cells, tissues, organs and systems of animals, chemical basis of animals life, chromosomes and genetic linkage, circulation, immunity and gas exchange, ecology: communities and ecosystems, ecology: individuals and populations, embryology, endocrine system and chemical messenger, energy and enzymes, inheritance patterns, introduction to zoology, molecular genetics: ultimate cellular control, nerves and nervous system, nutrition and digestion, protection, support and movement, reproduction and development, senses and sensory system, zoology and science tests for college and university revision guide. Zoology Quiz Questions and Answers PDF download with free sample book covers beginner's solved questions, textbook's study notes to practice tests. Zoology MCQs book includes high school question papers to review practice tests for exams. "Zoology Quiz" PDF book, a quick study guide with textbook chapters' tests for NEET/Jobs/Entry Level competitive exam. "Zoology Question Bank" PDF covers problem solving exam tests from zoology textbook and practical book's chapters as: Chapter 1: Behavioral Ecology MCQs Chapter 2: Cell Division MCQs Chapter 3: Cells, Tissues, Organs and Systems of Animals MCQs Chapter 4: Chemical Basis of Animals Life MCQs Chapter 5: Chromosomes and Genetic Linkage MCQs Chapter 6: Circulation, Immunity and Gas Exchange MCQs Chapter 7: Ecology: Communities and Ecosystems MCQs Chapter 8: Ecology: Individuals and Populations MCQs Chapter 9: Embryology MCQs Chapter 10: Endocrine System and Chemical Messenger MCQs Chapter 11: Energy and Enzymes MCQs Chapter 12: Inheritance Patterns MCQs Chapter 13: Introduction to Zoology MCQs Chapter 14: Molecular Genetics: Ultimate Cellular Control MCQs Chapter 15: Nerves and Nervous System MCQs Chapter 16: Nutrition and Digestion MCQs Chapter 17: Protection, Support and Movement MCQs Chapter 18: Reproduction and Development MCQs Chapter 19: Senses and Sensory System MCQs Chapter 20: Zoology and Science MCQs Practice "Behavioral Ecology MCQ" PDF book with answers, test 1 to solve MCQ questions: Approaches to animal behavior, and development of behavior. Practice "Cell Division MCQ" PDF book with answers, test 2 to solve MCQ questions: meiosis: Basis of sexual reproduction, mitosis: cytokinesis and cell cycle. Practice "Cells, Tissues, Organs and Systems of Animals MCQ" PDF book with answers, test 3 to solve MCQ questions: What are cells. Practice "Chemical Basis of Animals Life MCQ" PDF book with answers, test 4 to solve MCQ questions: Acids, bases and buffers, atoms and elements: building blocks of all matter, compounds and molecules: aggregates of atoms, and molecules of animals. Practice "Chromosomes and Genetic Linkage MCQ" PDF book with answers, test 5 to solve MCQ questions: Approaches to animal behavior, evolutionary mechanisms, organization of DNA and protein, sex chromosomes and autosomes, species, and speciation. Practice "Circulation, Immunity and Gas Exchange MCQ" PDF book with answers, test 6 to solve MCQ questions: Immunity, internal transport, and circulatory system. Practice "Ecology: Communities and Ecosystems MCQ" PDF book with answers, test 7 to solve MCQ questions: Community structure, and diversity. Practice "Ecology: Individuals and Populations MCQ" PDF book with answers, test 8 to solve MCQ questions: Animals and their abiotic environment, interspecific competition, and interspecific interactions. Practice "Embryology MCQ" PDF book with answers, test 9 to solve MCQ questions: Amphibian embryology, echinoderm embryology, embryonic development, cleavage and egg types, fertilization, and vertebrate embryology. Practice "Endocrine System and Chemical Messenger MCQ" PDF book with answers, test 10 to solve MCQ questions: Chemical messengers, hormones and their feedback systems, hormones of invertebrates, hormones of vertebrates: birds and mammals. Practice "Energy and Enzymes MCQ" PDF book with answers, test 11 to solve MCQ questions: Enzymes: biological catalysts, and what is energy. Practice "Inheritance Patterns MCQ" PDF book with answers, test 12 to solve MCQ questions: Birth of modern genetics. Practice "Introduction to Zoology MCQ" PDF book with answers, test 13 to solve MCQ questions: Glycolysis: first phase of nutrient metabolism, historical perspective, homeostasis, and temperature regulation. Practice "Molecular Genetics: Ultimate Cellular Control MCQ" PDF book with answers, test 14 to solve MCQ questions: Applications of genetic technologies, control of gene expression in eukaryotes, DNA: genetic material, and mutations. Practice "Nerves and Nervous System MCQ" PDF book with answers, test 15 to solve MCQ questions: Invertebrates nervous system, neurons: basic unit of nervous system, and vertebrates nervous system. Practice "Nutrition and Digestion MCQ" PDF book with answers, test 16 to solve MCQ questions: Animal's strategies for getting and using food, and mammalian digestive system. Practice "Protection, Support and Movement MCQ" PDF book with answers, test 17 to solve MCQ questions: Amoeboid movement, an introduction to animal muscles, bones or osseous tissue, ciliary and flagellar movement, endoskeletons, exoskeletons, human endoskeleton, integumentary system of invertebrates, integumentary system of vertebrates, integumentary systems, mineralized tissues and invertebrates, muscular system of invertebrates, muscular system of vertebrates, non-muscular movement, skeleton of fishes, skin of amphibians, skin of birds, skin of bony fishes, skin of cartilaginous fishes, skin of jawless fishes, skin of mammals, and skin of reptiles. Practice "Reproduction and Development MCQ" PDF book with answers, test 18 to solve MCQ questions: Asexual reproduction in invertebrates, and sexual reproduction in vertebrates. Practice "Senses and Sensory System MCQ" PDF book with answers, test 19 to solve MCQ questions: Invertebrates sensory reception, and vertebrates sensory reception. Practice "Zoology and Science MCQ" PDF book with answers, test 20 to solve MCQ questions: Classification of animals, evolutionary oneness and diversity of life, fundamental unit of life, genetic unity, and scientific methods.

Global Morality and Life Science Practices in Asia Feb 22 2020 Empirical studies of life science research and biotechnologies in Asia show how assemblages of life articulate bioethics governance with global moralities and reveal why the global harmonization of bioethical standards is contrived.

Big Questions in Ecology and Evolution Jun 08 2021 Why do we age? Why cooperate? Why do so many species engage in sex? Why do the tropics have so many species? When did humans start to affect world climate? This book provides an introduction to a range of fundamental questions that have taxed evolutionary biologists and ecologists for decades. Some of the phenomena discussed are, on first reflection, simply puzzling to understand from an evolutionary perspective, whilst others have direct implications for the future of the planet. All of the questions posed have at least a partial solution, all have seen exciting breakthroughs in recent years, yet many of the explanations continue to be hotly debated. Big Questions in Ecology and Evolution is a curiosity-driven book, written in an accessible way so as to appeal to a broad audience. It is very deliberately not a formal text book, but something designed to transmit the excitement and breadth of the field by discussing a number of major questions in ecology and evolution and how they have been answered. This is a book aimed at informing and inspiring anybody with an interest in ecology and evolution. It reveals to the reader the immense scope of the field, its fundamental importance, and the exciting breakthroughs that have been made in recent years.

Objective Life Science 4Ed : MCQs for Life Science Examination (CSIR, DBT, ICAR, ICMR, ASRB, IARI, SET & NET) Nov 25 2022 The idea of the book entitled "Objective Life Science: MCQs for Life Science Examination" was born because of the lack of any comprehensive book covering all the aspects of various entry level life science competitive examinations in particular conducted by CSIR, DBT, ICAR, ICMR, ASRB, IARI, State and National Eligibility Test, but not limited to. This book, covers all the subjects of life science under 13 section namely, 1. Molecules and their interaction relevant to biology; 2. Cellular organization; 3. Fundamental processes; 4. Cell communication and cell signaling; 5. Developmental biology; 6. System physiology – Plant; 7. System physiology – Animal; 8. Inheritance biology; 9. Diversity of life forms; 10. Ecological principles; 11. Evolution and behavior; 12. Applied biology and 13. Methods in biology. Each Section has been further divided into two parts with 200 short tricky questions and 100 applied conceptual questions. The ultimate purpose of this book is to equip the reader with brainstorming challenges and solution for life science and applied aspect examinations. It contains predigested information on all the academic subject of life science for good understanding, assimilation, self-evaluation, and reproducibility.

Asking Questions in Biology Oct 24 2022 Asking and answering questions is the cornerstone of science, yet formal training in understanding this key process is often overlooked. Asking Questions in Biology unpacks this crucial process of enquiry, from a biological perspective, at its various stages. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products

whilst you have your Bookshelf installed.

*Ask a Science Teacher* Jan 27 2023 Fun and fascinating Q&As on topics from astronomy to zoology: "A treasure." —Library Journal We've all grown so used to living in a world filled with wonders that we sometimes forget to wonder about them: What creates the wind? Do fish sleep? Why do we blink? All too often, the explanations remain shrouded in mystery—or behind a haze of technical language. For kids of all ages—or those of us who should have raised our hands in science class but didn't—Larry Scheckel comes to the rescue. An award-winning science teacher and longtime columnist for his local newspaper, Scheckel is a master explainer with a trove of knowledge. Just ask the students and devoted readers who've spent years trying to stump him! In *Ask a Science Teacher*, Scheckel collects 250 of his favorite Q&As and provides refreshingly uncomplicated explanations. You'll learn how planes really fly, why the Earth is round, how microwaves heat food, and much more on topics including: The Human Body \* Earth Science \* Astronomy \* Chemistry \* Physics \* Technology \* Zoology \* Music and conundrums that don't fit into any category "For any curious minded reader—young or old." —Publishers Weekly

**Joint CSIRUGC NET** Apr 30 2023 This immensely valuable book of Solved Previous Years' Papers of Joint CSIRUGC NET for Life Sciences is specially published for the aspirants of Junior Research Fellowship (JRF) & Lectureship Eligibility Exam. The book comprises several Solved Previous Years' Papers for CSIRUGC NET exams on the subject which are solved by Experts. Detailed Explanatory Answers have also been provided for selected questions in such a manner to be useful for both study and self-practice from the point of view of the exam. The book will help you understand the recent trends of exam and also serve as a true test of your studies & preparation for the exam. The book is highly recommended to improve your problem solving skills, speed and accuracy, and help you prepare well by practising through these papers to face the exam with Confidence, Successfully.

*Life Science Quest for Middle Grades, Grades 6 - 8* May 07 2021 Connect students in grades 6–8 with science using *Life Science Quest for Middle Grades*. This 96-page book helps students practice scientific techniques while studying cells, plants, animals, DNA, heredity, ecosystems, and biomes. The activities use common classroom materials and are perfect for individual, team, and whole-group projects. The book includes a glossary, standards lists, unit overviews, and enrichment suggestions. It is great as core curriculum or a supplement and supports National Science Education Standards.

**CUET MSc Life Science Practice Set Book 3400+ Question Answer Unit Wise [8 UNits] With Explanations Question Bank** Feb 28 2023 CUET Life Science [PGQP22] Complete Practice Question Answer Sets 3400+[MCQ] (Unit Wise) from Cover All 8 Units Techniques, Chromatin structure, and function, Biochemistry, Biotechnology, Microbiology Molecular Genetics, Plant Sciences, Animal Sciences Highlights of CUET Life Science Question Bank- 3400+ Questions Answer Included With Explanation 400 MCQ of Each UNit with Explanations As Per Updated Syllabus Include Most Expected MCQ as per Paper Pattern/Exam Pattern All Questions Design by Expert Faculties & JRF Holder.

*Statistics for the Life Sciences, Global Edition* Aug 10 2021 The 5th Edition of *Statistics for the Life Sciences* uses authentic examples and exercises from a wide variety of life science domains to give statistical concepts personal relevance, enabling students to connect concepts with situations they will encounter outside the classroom. The emphasis on understanding ideas rather than memorising formulas makes the text ideal for students studying a variety of scientific fields: animal science, agronomy, biology, forestry, health, medicine, nutrition, pharmacy, physical education, zoology and more. In the 5th Edition, randomisation tests have been moved to the fore to motivate the inference procedures introduced in the text. There are no prerequisites for the text except elementary algebra. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed. For introductory undergraduate or graduate courses in statistics aimed at life science majors.

*Multiple Choice Questions for Biological Sciences* Aug 22 2022 Exam Revision from the year 2015 in the subject Biology - General, Basics, Nirma University, language: English, abstract: This is a compilation of more than 100 multiple choice questions pertaining to different areas of biological sciences. This compilation is intended to be helpful to those who are preparing for appearing in any of the competitive examinations at various levels. Questions mainly are from the fields of Microbiology, Biochemistry, Biotechnology, Immunology, Biomedical Engineering, etc. All correct answers are put in bold face for immediate reference of the reader. Teachers may also find some questions from this compilation suitable for inclusion in various test papers.

**Life Science Ethics** Jun 20 2022 Does nature have intrinsic value? Should we be doing more to save wilderness and ocean ecosystems? What are our duties to future generations of humans? Do animals have rights? This revised edition of "Life Science Ethics" introduces these questions using narrative case studies on genetically modified foods, use of animals in research, nanotechnology, and global climate change, and then explores them in detail using essays written by nationally-recognized experts in the ethics field. Part I introduces ethics, the relationship of religion to ethics, how we assess ethical arguments, and a method ethicists use to reason about ethical theories. Part II demonstrates the relevance of ethical reasoning to the environment, land, farms, food, biotechnology, genetically modified foods, animals in agriculture and research, climate change, and nanotechnology. Part III presents case studies for the topics found in Part II.

*Leadership in the Life Sciences* Mar 17 2022 The healthcare professionals who save and extend our lives are helpless without the medicines and technologies that have revolutionised medical care. But the industry that invents, makes and provides these indispensable tools is transforming under the pressure of ageing populations, globalisation and revolutions in biological and information technology. How this industry adapts and evolves is vitally important to every one of us. This book looks inside the heads and hearts of the people who lead the global pharmaceutical and medical technology industry. It describes how they make sense of their markets and the wider life sciences economy. It reveals what they have learned about how to lead large, complex organisations to compete in dynamic, global markets. *Leadership in the Life Sciences* is essential reading for anyone working in or with the pharmaceutical and medical technology industry and its halo of supporting companies. Written as ten succinct lessons, it gives the reader unique insight into what the industry's leaders are thinking. Covering topics from leadership to organisational culture, from change management to digital disruption and from competitive strategy to value-creation, each chapter distils the accumulated wisdom of those who lead the complex and turbulent life sciences industry.

*The Science Question in Feminism* Sep 11 2021 Can science, steeped in Western, masculine, bourgeois endeavors, nevertheless be used for emancipatory ends? In this major contribution to the debate over the role gender plays in the scientific enterprise, Sandra Harding pursues that question, challenging the intellectual and social foundations of scientific thought. Harding provides the first comprehensive and critical survey of the feminist science critiques, and examines inquiries into the androcentricism that has endured since the birth of modern science. Harding critiques three epistemological approaches: feminist empiricism, which identifies only bad science as the problem; the feminist standpoint, which holds that women's social experience provides a unique starting point for discovering masculine bias in science; and feminist postmodernism, which disputes the most basic scientific assumptions. She points out the tensions among these stances and the inadequate concepts that inform their analyses, yet maintains that the critical discourse they foster is vital to the quest for a science informed by emancipatory morals and politics.

*The Genesis Quest* Sep 23 2022 'A fascinating and challenging story' New York Review of Books 'This is an incredibly absorbing and insightful book about the most important scientific question of our age' Mark Miodownik, author of *Stuff Matters* 'The story of the quest to understand life's genesis is a universal one, in which everyone can find pleasure and fascination. By asking how life came to be, we are implicitly asking why we are here, whether life exists on other planets, and what it means to be alive. This book is the story of a group of fragile, flawed humans who chose to wrestle with these questions. By exploring the origin of life, we can catch a glimpse of the infinite.' How did life begin? Why are we here? These are some of the most profound questions we can ask. For almost a century, a small band of eccentric scientists has struggled to answer these questions and explain one of the greatest mysteries of all: how and why life began on Earth. There are many different proposals, and each idea has attracted passionate believers who promote it with an almost religious fervour, as well as detractors who reject it with equal passion. But the quest to unravel life's genesis is not just a story of big ideas. It is also a compelling human story, rich in personalities, conflicts, and surprising twists and turns. Along the way the journey takes in some of the greatest discoveries in modern biology, from evolution and cells to DNA and life's family tree. It is also a search whose end may finally be in sight. In *The Genesis Quest*, Michael Marshall shows how the quest to understand life's beginning is also a journey to discover the true nature of life, and by extension our place in the universe.

*The Explanatory Autonomy of the Biological Sciences* Apr 06 2021 This book argues for the explanatory autonomy of the biological sciences. It does so by showing that scientific explanations in the biological sciences cannot be reduced to explanations in the fundamental sciences such as physics and chemistry and by demonstrating that biological explanations are advanced by models rather than laws of nature. To maintain the explanatory autonomy of the biological sciences, the author argues against explanatory reductionism and shows that explanation in the biological sciences can be achieved without reduction. Then, he demonstrates that the biological sciences do not have laws of nature. Instead of laws, he suggests that biological models usually do the explanatory work. To understand how a biological model can explain phenomena in the world, the author proposes an inferential account of model explanation. The basic idea of this account is that, for a model to be explanatory, it must answer two kinds of questions: counterfactual-dependence questions that concern the model itself and hypothetical questions that concern the relationship between the model and its target system. The reason a biological model can answer these two kinds of questions is due to the fact that a model is a structure, and the holistic relationship between the model and its target warrants the hypothetical inference from the model to its target and thus helps to answer the second kind of question. *The Explanatory Autonomy of the Biological Sciences* will be of interest to researchers and advanced students working in philosophy of science, philosophy of biology and metaphysics.

**Discovery and Explanation in Biology and Medicine** Feb 04 2021 Kenneth F. Schaffner compares the practice of biological and medical research and shows how

traditional topics in philosophy of science—such as the nature of theories and of explanation—can illuminate the life sciences. While Schaffner pays some attention to the conceptual questions of evolutionary biology, his chief focus is on the examples that immunology, human genetics, neuroscience, and internal medicine provide for examinations of the way scientists develop, examine, test, and apply theories. Although traditional philosophy of science has regarded scientific discovery—the questions of creativity in science—as a subject for psychological rather than philosophical study, Schaffner argues that recent work in cognitive science and artificial intelligence enables researchers to rationally analyze the nature of discovery. As a philosopher of science who holds an M.D., he has examined biomedical work from the inside and uses detailed examples from the entire range of the life sciences to support the semantic approach to scientific theories, addressing whether there are "laws" in the life sciences as there are in the physical sciences. Schaffner's novel use of philosophical tools to deal with scientific research in all of its complexity provides a distinctive angle on basic questions of scientific evaluation and explanation.

**The Comprehensive Guide to Science and Faith** May 19 2022 Science and Faith Can—and Do—Support Each Other Science and Christianity are often presented as opposites, when in fact the order of the universe and the complexity of life powerfully testify to intelligent design. With this comprehensive resource that includes the latest research, you'll witness how the findings of scientists provide compelling reasons to acknowledge the mind and presence of a creator. Featuring more than 45 entries by top-caliber experts, you'll better understand... how scientific concepts like intelligent design are supported by evidence the scientific findings that support the history and accounts found in the Bible the biases that lead to scientific information being presented as a challenge—rather than a complement—to Christianity Whether you're looking for answers to your own questions or seeking to explain the case for intelligent design to others, The Comprehensive Guide to Science and Faith is an invaluable apologetic tool that will help you explore and analyze the relevant facts, research, and theories in light of biblical truth.

*Why Don't Penguins' Feet Freeze?* Dec 22 2019 • What time is it at the North Pole? • What's the chemical formula for a human being? • Why do boomerangs come back? • Why do flying fish fly? • Do the living really outnumber the dead? • Why does lightning fork? • Why does the end of a whip crack? Everyone has at one time or another thought up odd questions like these, questions that are strange, intriguing, maybe even impossible to answer. Making your morning omelet, perhaps you've wondered why most eggs are egg shaped. Or maybe, the last time you walked on the beach, you felt compelled to ask why the sea is salty. Watching Polly sit on her perch, have you ever marveled at how she stays there -- even when she's asleep? Well, the readers of New Scientist's wildly popular, long-running column "The Last Word" thought of these questions, too, and weren't afraid to ask them. *Why Don't Penguins' Feet Freeze?* is a brilliant collection of questions and answers for everyone who enjoyed the international, runaway bestseller *Does Anything Eat Wasps?* Guaranteed to amaze, inform, and delight with topics such as the human body, plants and animals, weird weather, and our wacky world, it'll stump you, enlighten you, entertain and amuse you.

*The Metaphysics of Evolution* Dec 14 2021 This critical collection of essays represents the best of the best when it comes to philosophy of biology. Many chapters treat evolution as a biological phenomenon, but the author is more generally concerned with science itself. Present-day science, particularly current views on systematics and biological evolution are investigated. The aspects of these sciences that are relevant to the general analysis of selection processes are presented, and they also serve to exemplify the general characteristics exhibited by science since its inception.

**Social and Conceptual Issues in Astrobiology** Jun 27 2020 "This book focuses on the emerging scientific discipline of astrobiology, exploring the humanistic issues of this multidisciplinary field. To be sure, there are myriad scientific questions that astrobiologists have only begun to address. However, this is not a purely scientific enterprise. More research on the broader social and conceptual aspects of astrobiology is needed. Just what are our ethical obligations towards different sorts of alien life? Should we attempt to communicate with life beyond our planet? What is "life" in the most general sense? The current volume addresses these questions by looking at different perspectives from philosophers, historians, theologians, social scientists, and legal scholars. It sets a benchmark for future work in astrobiology, giving readers the groundwork from which to base the continuous scholarship coming from this ever-growing scientific field"--

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