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The study guide is divided into two sections: vocabulary and short answer questions. The vocabulary is taken directly from the lecture, sequentially. The short answer questions are meant to model the type they may see on the exam.

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Vocabulary Understand and be able to apply each of these terms. 1. Ecology □ 2. Organism - 3. Population - 4. Biological Community - 5. Ecosystem - 6. Biosphere - 7. Habitat - 8. Critical Factor - 9. Biodiversity - 10. Density-dependent resistance factor □ 11. Density-independent resistance factor □ 12.

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1. Describe the general effects of the earth's tilt on its axis on patterns of sunlight, daylength, and temperature. 2. Discuss the mechanism(s) by which variation in sunlight gives rise to global patterns of air circulation and precipitation (and describe those patterns!).

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Vocabulary Understand and be able to apply each of these

terms. 1. Ecology 2. Organism - 3. Population - 4. Biological

Community - 5. Ecosystem - 6. Biosphere - 7. Habitat - 8.

Critical Factor - 9. Biodiversity - 10.

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Study of ecology and evolution benefit humans: - Pollinators -

Disease resistance - Carbon sinks - Food What are threats to

biodiversity? Deforestation and habitat loss, desertification,

climate change, overexploitation (hunting), invasive species (

The introduction of non-native species into an ecosystem can

threaten endemic wildlife), pollution

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An innovative introduction to ecology and evolution This unique textbook introduces undergraduate students to quantitative models and methods in ecology, behavioral ecology, evolutionary biology, and conservation. It explores the core concepts shared by these related fields using tools and practical skills such as experimental design, generating phylogenies, basic statistical inference, and persuasive grant writing. And contributors use examples from their own cutting-edge research, providing diverse views to engage students and broaden their understanding. This is the only textbook on the subject featuring a collaborative "active learning" approach that emphasizes hands-on learning. Every chapter has exercises that enable students to work directly with the material at their own pace and in small groups. Each problem includes data presented in a rich array of formats, which students use to answer questions that illustrate patterns, principles, and methods. Topics range from Hardy-Weinberg

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equilibrium and population effective size to optimal foraging and indices of biodiversity. The book also includes a comprehensive glossary. In addition to the editors, the contributors are James Beck, Cawas Behram Engineer, John Gaskin, Luke Harmon, Jon Hess, Jason Kolbe, Kenneth H. Kozak, Robert J. Robertson, Emily Silverman, Beth Sparks-Jackson, and Anton Weisstein. Provides experience with hypothesis testing, experimental design, and scientific reasoning Covers core quantitative models and methods in ecology, behavioral ecology, evolutionary biology, and conservation Turns "discussion sections" into "thinking labs" Professors: A supplementary Instructor's Manual is available for this book. It is restricted to teachers using the text in courses. For information on how to obtain a copy, refer to: http://press.princeton.edu/class_use/solutions.html

In recent years, scientists have realized that evolution can occur on timescales much shorter than the 'long lapse of ages' emphasized by Darwin - in fact, evolutionary change is occurring all around us all the time. This work provides an authoritative and accessible introduction to eco-evolutionary dynamics, a cutting-edge new field that seeks to unify evolution and ecology into a common conceptual framework focusing on rapid and dynamic environmental and evolutionary change.

The history of biology is populated by numerous model species or organisms. But few vertebrate groups have aided evolutionary and ecological research more than the live-bearing fishes of the family Poeciliidae. Found throughout tropical and subtropical waters, poeciliids exhibit a fascinating variety of reproductive specializations, including viviparity, matrotrophy, unisexual reproduction, and alternative mating strategies, making them ideal models for research on patterns

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and processes in ecology, behavior, and evolution. Ecology and Evolution of Poeciliid Fishes is a much-needed overview of the scientific potential and understanding of these live-bearing fishes. Chapters by leading researchers take up a wide range of topics, including the evolution of unisexual reproduction, life in extreme environments, life-history evolution, and genetics. Designed to provide a single and highly approachable reference, Ecology and Evolution of Poeciliid Fishes will appeal to students and specialists interested in all aspects of evolutionary ecology.

Biology has entered an era in which interdisciplinary cooperation is at an all-time high, practical applications follow basic discoveries more quickly than ever before, and new technologies--recombinant DNA, scanning tunneling microscopes, and more--are revolutionizing the way science is conducted. The potential for scientific breakthroughs with significant implications for society has never been greater. Opportunities in Biology reports on the state of the new biology, taking a detailed look at the disciplines of biology; examining the advances made in medicine, agriculture, and other fields; and pointing out promising research opportunities. Authored by an expert panel representing a variety of viewpoints, this volume also offers recommendations on how to meet the infrastructure needs--for funding, effective information systems, and other support--of future biology research. Exploring what has been accomplished and what is on the horizon, Opportunities in Biology is an indispensable resource for students, teachers, and researchers in all subdisciplines of biology as well as for research administrators and those in funding agencies.

This book provides an introduction to a range of fundamental questions that have taxed evolutionary biologists and

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ecologists for decades. All of the questions posed have at least a partial solution, all have seen exciting breakthroughs in recent years, yet many of the explanations have been hotly debated.

In *Butterflies: Ecology and Evolution Taking Flight*, the world's leading experts synthesize current knowledge of butterflies to show how the study of these fascinating creatures as model systems can lead to deeper understanding of ecological and evolutionary patterns and processes in general. The twenty-six chapters are organized into broad functional areas, covering the uses of butterflies in the study of behavior, ecology, genetics and evolution, systematics, and conservation biology. Especially in the context of the current biodiversity crisis, this book shows how results found with butterflies can help us understand large, rapid changes in the world we share with them—for example, geographic distributions of some butterflies have begun to shift in response to global warming, giving early evidence of climate change that scientists, politicians, and citizens alike should heed. The first international synthesis of butterfly biology in two decades, *Butterflies: Ecology and Evolution Taking Flight* offers students, scientists, and amateur naturalists a concise overview of the latest developments in the field. Furthermore, it articulates an exciting new perspective of the whole group of approximately 15,000 species of butterflies as a comprehensive model system for all the sciences concerned with biodiversity and its preservation. Contributors: Carol L. Boggs, Paul M. Brakefield, Adriana D. Briscoe, Dana L. Campbell, Elizabeth E. Crone, Mark Deering, Henri Descimon, Erika I. Deinert, Paul R. Ehrlich, John P. Fay, Richard French-Constant, Sherri Fownes, Lawrence E. Gilbert, André Gilles, Ilkka Hanski, Jane K. Hill, Brian Huntley, Niklas Janz, Greg Kareofelas, Nusha Keyghobadi, P.

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Not since Willam A. Bryan's 1915 landmark compendium, *Hawaiian Natural History*, has there been a single-volume work that offers such extensive coverage of this complex but fascinating subject. Illustrated with more than two dozen color plates and a hundred photographs and line drawings, *Hawaiian Natural History, Ecology, and Evolution* updates both the earlier publication and subsequent works by compiling and synthesizing in a uniform and accessible fashion the widely scattered information now available. Readers can trace the natural history of the Hawaiian Archipelago through the book's twenty-eight chapters or focus on specific topics such as island formation by plate tectonics, plant and animal evolution, flightless birds and their fossil sites, Polynesian migrational history and ecology, the effects of humans and exotic animals on the environment, current conservation efforts, and the contributions of the many naturalists who visited the islands over the centuries and the stories behind their discoveries. An extensive annotated bibliography and a list of audio-visual materials will help readers locate additional sources of information.

The Princeton Guide to Evolution is a comprehensive, concise, and authoritative reference to the major subjects and key concepts in evolutionary biology, from genes to mass extinctions. Edited by a distinguished team of evolutionary biologists, with contributions from leading researchers, the guide contains some 100 clear, accurate, and up-to-date

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articles on the most important topics in seven major areas: phylogenetics and the history of life; selection and adaptation; evolutionary processes; genes, genomes, and phenotypes; speciation and macroevolution; evolution of behavior, society, and humans; and evolution and modern society. Complete with more than 100 illustrations (including eight pages in color), glossaries of key terms, suggestions for further reading on each topic, and an index, this is an essential volume for undergraduate and graduate students, scientists in related fields, and anyone else with a serious interest in evolution. Explains key topics in some 100 concise and authoritative articles written by a team of leading evolutionary biologists. Contains more than 100 illustrations, including eight pages in color. Each article includes an outline, glossary, bibliography, and cross-references. Covers phylogenetics and the history of life; selection and adaptation; evolutionary processes; genes, genomes, and phenotypes; speciation and macroevolution; evolution of behavior, society, and humans; and evolution and modern society.

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