

Study Guide

Biology 30 Unit D: Population and Community Dynamics

This is a list of some things you'll want to be able to do for the unit exam. This is not a complete list of everything that will be on the exam. If you can check off most of these boxes without looking at your notes, you have a good opportunity to do well on the exam.

Unit D: Population and Community Dynamics

Students must be able to:

- ☐ Recall all definitions, such as: system, equilibrium, population, Hardy-Weinberg principle, community, individual, gene pool, natural selection, synthesis, suicide toxin, natality, mortality, immigration, diversity, emigration, r-selected, K-selected
- ☐ Define the Hardy-Weinberg principle. Explain why it's significant in population gene-pool stability and nonequilibrium values
- ☐ Explain how genetic drift, natural selection, gene flow, nonrandom mating, bottleneck effects, founder effects, mutation, and mutation all contribute to the genetic diversity of a gene pool
- ☐ Use the Hardy-Weinberg principle to determine allele and genotype frequency in a set of data by using the equations $p + q = 1$ and $p^2 + 2pq + q^2 = 1$
- ☐ Explain how mutations and natural selection are at the molecular level and how significant they are over time
- ☐ Correctly apply significant digits when making calculations
- ☐ Explain predator-prey and consumer-producer relationships
- ☐ Define commensalism, mutualism, and parasitism
- ☐ Differentiate between interspecific and intraspecific competition
- ☐ Give examples of defence mechanisms and how they affect predation and competition
- ☐ Explain how population structures may change over time or day as a climax community
- ☐ Define primary and secondary succession
- ☐ Analyse succession patterns over time
- ☐ Calculate change in population size using the formula: $\Delta N = [\text{natality} + \text{immigration}] - [\text{mortality} + \text{emigration}]$
- ☐ Use formulas to calculate: growth rate, per capita growth rate, and population density
- ☐ Identify a growth pattern as either logistic (S-shaped) or exponential (J-shaped)
- ☐ Explain the difference between open and closed populations
- ☐ Identify a species as r or K selected based on characteristics or reproductive strategies
- ☐ Evaluate how environmental factors can affect population growth
- ☐ Analyse graphical data on r or K selected species

Biology Population Dynamics Study Guide Answers

D. Rollinson, Roy M. Anderson



Biology Population Dynamics Study Guide Answers:

Population Dynamics Naomi Cappuccino, Peter W. Price, 1995-09-01 An understanding of the dynamics of populations is critically important to ecologists evolutionary biologists wildlife managers foresters and many other biologists This edited treatise brings together the latest research on how populations fluctuate in size the factors that drive these changes and the theories explaining how populations are regulated The book also includes specific chapters dealing with insects of economic importance Mathematical Biology Christina Alvey, Daniel Alvey, 2024-08-09 This text serves as an exploration of the

beautiful topic of mathematical biology through the lens of discrete and differential equations Intended for students who have completed differential and integral calculus Mathematical Biology Discrete and Differential Equations allows students to explore topics such as bifurcation diagrams nullclines discrete dynamics and SIR models for disease spread which are often reserved for more advanced undergraduate or graduate courses These exciting topics are sprinkled throughout the book alongside the more typical first and second order linear differential equations and systems of linear differential equations This class tested text is written in a conversational welcoming voice which should help invite students along as they discover the magic of mathematical biology and both discrete and differential equations A focus is placed on examples with solutions written out step by step including computational steps with the goal of being as easy as possible for students to independently follow along Rich in applications this book can be used for a semester long course in either differential equations or mathematical biology Alternatively it can serve as a companion text for a two semester sequence beginning with discrete time systems extending through a wide array of topics in differential equations and culminating in systems SIR models and other applications **The Princeton Guide to Ecology** Simon A. Levin, Stephen R. Carpenter, H. Charles J.

Godfray, Ann P. Kinzig, Michel Loreau, Jonathan B. Losos, Brian Walker, David S. Wilcove, 2012-09-30 The Princeton Guide to Ecology is a concise authoritative one volume reference to the field s major subjects and key concepts Edited by eminent ecologist Simon Levin with contributions from an international team of leading ecologists the book contains more than ninety clear accurate and up to date articles on the most important topics within seven major areas autecology population ecology communities and ecosystems landscapes and the biosphere conservation biology ecosystem services and biosphere management Complete with more than 200 illustrations including sixteen pages in color a glossary of key terms a chronology of milestones in the field suggestions for further reading on each topic and an index this is an essential volume for undergraduate and graduate students research ecologists scientists in related fields policymakers and anyone else with a serious interest in ecology Explains key topics in one concise and authoritative volume Features more than ninety articles written by an international team of leading ecologists Contains more than 200 illustrations including sixteen pages in color Includes glossary chronology suggestions for further reading and index Covers autecology population ecology communities and ecosystems landscapes and the biosphere conservation biology ecosystem services and biosphere management **An**

Analysis of the Population Dynamics of Selected Avian Species Charles J. Henny, Douglas H. Johnson, Michael A. Bogan, Sandra L Husar, Alan B. Sargeant, 1972

Ecology and Genetics of Host-parasite Interactions D. Rollinson, Roy M. Anderson, 1985 Interactions of fish and parasite populations Genetics immunity and parasite survival Cycling and non cycling populations of red grouse Schistosome and snail populations Ecological and evolutionary dynamics of parasites The gene for gene hypothesis parable or paradigm Bacteria and phage Host parasite associations their population biology and population genetics

Relations. Beyond Anthropocentrism. Vol. 3, No. 1 (2015). Wild Animal Suffering and Intervention in Nature: Part II AA. VV., 2016-04-19T16:40:00+02:00 Relations Beyond Anthropocentrism is a peer refereed journal of trans anthropocentric ethics and related inquires The main aim of the journal is to create a professional interdisciplinary forum in Europe to discuss moral and scientific issues that concern the increasing need of going beyond narrow anthropocentric paradigms in all fields of knowledge The journal accepts submissions on all topics which promote European research adopting a non anthropocentric ethical perspective on both interspecific and intraspecific relationships between all life species humans included and between these and the abiotic environment [Relations 3.2 - November 2015](#)

Faria Catia, Paez Eze, 2015-11-17 Table of Contents The Importance of Wild Animal Suffering Brian Tomasik A Welfare State for Elephants A Case Study of Compassionate Stewardship David Pearce Refusing Help and Inflicting Harm a Critique of the Environmentalist View Eze Paez Relations and Moral Obligations towards Other Animals Beril S zmen Welfare Biology as an Extension of Biology Interview with Yew Kwang Ng Max Carpendale Against the View That We Are Normally Required to Assist Wild Animals Clare Palmer Disentangling Obligations of Assistance a Reply to Clare Palmer s Against the View That We Are Usually Required to Assist Wild Animals Catia Faria Ethical Interventions in the Wild an Annotated Bibliography Daniel Dorado

Marine Fisheries Review ,1989

The Epidemiology of Plant Diseases B.M. Cooke, D. Gareth Jones, B. Kaye, 2006-03-29 Plant disease epidemiology is a dynamic science that forms an essential part of the study of plant pathology This book brings together a team of 35 international experts Each chapter deals with an essential component of the subject and allows the reader to fully understand how each exerts its influence on the progress of pathogen populations in plant populations over a defined time scale This edition has new revised and updated chapters *Wildlife Research* ,2014

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