

# POPULATION ECOLOGY (ANSWERS)

## Activity 1: Populations

1. Distinguish between the terms species, population and community. (6)

- A species is a group of living organisms that can interbreed ✓ and produce fertile offspring ✓
- A population is a part of a particular species ✓ that occupies the same habitat at the same time ✓
- A community is formed by different species ✓ that interact with each other in a specific habitat ✓

2. Explain how the density of a population affects its growth rate. (4)

Density dependent factors exert an effect on a population in proportion to its size ✓  
 ✓ The greater the population number ✓, the greater influence density dependent factors will have ✓. Density independent factors will have an influence on a population irrespective of its size. ✓

3. Define the term carrying capacity. (2)

Carrying capacity refers to the largest number of individuals of a biological species ✓  
 ✓ that an ecosystem can support over an indefinite time ✓

4. Name two environmental conditions which could result in a positive population growth. (2)

Enough food and water ✓, space ✓

## Activity 2: Growth forms

1. Tabulate two major differences between logistic and geometric growth forms.

Include an example of a species representing each growth form. (6)

Geometric growth	Logistic growth
Micro-organisms (typically)	Higher order animals
Overshoots carrying capacity	Typically equalizes with carrying capacity
Example: bacteria	Example: mammals Elephant

Table: ✓

Example per growth form: ✓

Any 2 comparisons: ✓✓ per correct comparison

2. Identify the growth form in the following graph. (1)

# Population Ecology Answers

**Gary S. Thorpe**



## **Population Ecology Answers:**

**Introduction to Population Ecology** Larry L. Rockwood, 2015-04-07 Introduction to Population Ecology 2nd Edition is a comprehensive textbook covering all aspects of population ecology. It uses a wide variety of field and laboratory examples, botanical to zoological, from the tropics to the tundra to illustrate the fundamental laws of population ecology. Controversies in population ecology are brought fully up to date in this edition with many brand new and revised examples and data. Each chapter provides an overview of how population theory has developed followed by descriptions of laboratory and field studies that have been inspired by the theory. Topics explored include single species population growth and self limitation, life histories, metapopulations, and a wide range of interspecific interactions including competition, mutualism, parasite-host, predator-prey, and plant-herbivore. An additional final chapter, new for the second edition, considers multi-trophic and other complex interactions among species. Throughout the book, the mathematics involved is explained with a step-by-step approach, and graphs and other visual aids are used to present a clear illustration of how the models work. Such features make this an accessible introduction to population ecology, essential reading for undergraduate and graduate students taking courses in population ecology, applied ecology, conservation ecology, and conservation biology, including those with little mathematical experience.

**Population Ecology in Practice** Dennis L. Murray, Brett K. Sandercock, 2020-02-10 A synthesis of contemporary analytical and modeling approaches in population ecology. The book provides an overview of the key analytical approaches that are currently used in demographic, genetic, and spatial analyses in population ecology. The chapters present current problems, introduce advances in analytical methods and models, and demonstrate the applications of quantitative methods to ecological data. The book covers new tools for designing robust field studies, estimation of abundance and demographic rates, matrix population models, and analyses of population dynamics and current approaches for genetic and spatial analysis. Each chapter is illustrated by empirical examples based on real datasets, with a companion website that offers online exercises and examples of computer code in the R statistical software platform. Fills a niche for a book that emphasizes applied aspects of population analysis. Covers many of the current methods being used to analyse population dynamics and structure. Illustrates the application of specific analytical methods through worked examples based on real datasets. Offers readers the opportunity to work through examples or adapt the routines to their own datasets using computer code in the R statistical platform. Population Ecology in Practice is an excellent book for upper-level undergraduate and graduate students taking courses in population ecology or ecological statistics, as well as established researchers needing a desktop reference for contemporary methods used to develop robust population assessments.

**Textbook of Environment and Ecology** Vir Singh, 2024-03-22 This textbook is focused on fundamentals of environment and ecology for undergraduate and graduate students. This is first of its kind book dealing with physical environment, ecosystems, biological diversity, environmental pollution, and environment-influenced natural resource ecology and management. This will cater to the needs of the students.

examinees trainees and teachers It consists of 23 chapters spread over 5 sections i e ecosystem analysis natural resources biodiversity environmental disruptions and environmental management The textbook is well aligned with the syllabus of all central and state universities and offers the latest insights as well to the students of undergraduate and postgraduate courses of ecology and environmental sciences Every chapter provides summary points to remember and exercises Each exercise includes 20 multiple choice questions 10 short answer questions and 5 long answer questions The textbook is a comprehensive coverage for basic and advanced courses in ecology and environmental sciences Each topic is supported by illustrations tables and information boxes etc

Population Ecology of Individuals Adam Lomnicki,1988-01-01 A common tendency in the field of population ecology has been to overlook individual differences by treating populations as homogeneous units conversely in behavioral ecology the tendency has been to concentrate on how individual behavior is shaped by evolutionary forces but not on how this behavior affects population dynamics Adam Lomnicki and others aim to remedy this one sidedness by showing that the overall dynamical behavior of populations must ultimately be understood in terms of the behavior of individuals Professor Lomnicki s wide ranging presentation of this approach includes simple mathematical models aimed at describing both the origin and consequences of individual variation among plants and animals The author contends that further progress in population ecology will require taking into account individual differences other than sex age and taxonomic affiliation unequal access to resources for instance Population ecologists who adopt this viewpoint may discover new answers to classical questions of population ecology Partly because it uses a variety of examples from many taxonomic groups this work will appeal not only to population ecologists but to ecologists in general

CliffsAP Biology, 3rd Edition Phillip E Pack,2011-11-08 Your complete guide to a higher score on the AP Biology exam Included in book A review of the AP exam format and scoring proven strategies for answering multiple choice questions and hints for tackling the essay questions A list of 14 specific must know principles are covered Includes sample questions and answers for each subject Laboratory Review includes a focused review of all 12 AP laboratory exercises AP Biology Practice Tests features 2 full length practice tests that simulate the actual test along with answers and complete explanations AP is a registered trademark of the College Board which was not involved in the production of and does not endorse this product

*Population Ecology of Individuals* Adam Lomnicki,2020-03-31 A common tendency in the field of population ecology has been to overlook individual differences by treating populations as homogeneous units conversely in behavioral ecology the tendency has been to concentrate on how individual behavior is shaped by evolutionary forces but not on how this behavior affects population dynamics Adam Lomnicki and others aim to remedy this one sidedness by showing that the overall dynamical behavior of populations must ultimately be understood in terms of the behavior of individuals Professor Lomnicki s wide ranging presentation of this approach includes simple mathematical models aimed at describing both the origin and consequences of individual variation among plants and animals The author contends that further progress in population

ecology will require taking into account individual differences other than sex age and taxonomic affiliation unequal access to resources for instance Population ecologists who adopt this viewpoint may discover new answers to classical questions of population ecology Partly because it uses a variety of examples from many taxonomic groups this work will appeal not only to population ecologists but to ecologists in general

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Cracking the AP Environmental Science Exam, 2014 Edition Angela Morrow,Tim Ligget,2013-09-03 Reviews topics covered on the test offers tips on test taking strategies and includes two full length practice tests with answers and explanations

**Questions and Answers on A Conservation Strategy for the Northern Spotted Owl** ,1991

Population Ecology John H. Vandermeer,Deborah E. Goldberg,2013-08-25 The essential introduction to population ecology now expanded and fully updated Ecology is capturing the popular imagination like never before with issues such as climate change species extinctions and habitat destruction becoming ever more prominent At the same time the science of ecology has advanced dramatically growing in mathematical and theoretical sophistication Here two leading experts present the fundamental quantitative principles of ecology in an accessible yet rigorous way introducing students to the most basic of all ecological subjects the structure and dynamics of populations John Vandermeer and Deborah Goldberg show that populations are more than simply collections of individuals Complex variables such as distribution and territory for expanding groups come into play when mathematical models are applied Vandermeer and Goldberg build these models from the ground up from first principles using a broad range of empirical examples from animals and viruses to plants and humans They address a host of exciting topics along the way including age structured populations spatially distributed populations and metapopulations This second edition of Population Ecology is fully updated and expanded with additional exercises in virtually every chapter making it the most up to date and comprehensive textbook of its kind Provides an accessible mathematical foundation for the latest advances in ecology Features numerous exercises and examples throughout Introduces students to the key literature in the field The essential textbook for advanced undergraduates and graduate students An online illustration package is available to professors

**The Evolution of Population Biology** Rama S. Singh,Marcy K. Uyenoyama,2004-01-15 This 2004 collection of essays deals with the foundation and historical development of population biology and its relationship to population genetics and population ecology on the one hand and to

the rapidly growing fields of molecular quantitative genetics genomics and bioinformatics on the other Such an interdisciplinary treatment of population biology has never been attempted before The volume is set in a historical context but it has an up to date coverage of material in various related fields The areas covered are the foundation of population biology life history evolution and demography density and frequency dependent selection recent advances in quantitative genetics and bioinformatics evolutionary case history of model organisms focusing on polymorphisms and selection mating system evolution and evolution in the hybrid zones and applied population biology including conservation infectious diseases and human diversity This is the third of three volumes published in honour of Richard Lewontin Environmental Biology Mr. Rohit Manglik,2024-07-09 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

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**Environmental Science** Dr C.S.K. Mishra, Tanushree Moharana, 2021-06-28 Urbanization and industrialization during the last few decades have invited a large number of environmental issues which demand urgent attention and remedy. The rapid growth in population and over exploitation of our natural resources including large scale deforestation have been responsible for environmental degradation and consequent unexpected spike in the occurrence of natural disasters such as flood, drought, cyclones etc which have taken heavy toll of human life during the recent past. Although there have been efforts to minimize environmental damages through development of eco friendly technology and optimal utilization of resources, the problems remain because of inadequate awareness among the masses. Therefore, as per the decision of Hon'ble Supreme Court of India, the University Grants Commission (UGC) has made Environmental science a compulsory subject for all the undergraduate university students. This step was taken to make the student community aware about the environment and ensure their participation in conservation of our fragile ecosystems. This book has been written incorporating topics prescribed by the UGC model syllabus for AECC Environmental science. All the topics have been described in a simple and concise manner with suitable figures for better understanding of the students. The authors hope that the book will cater to the needs of undergraduate students of various Universities/Colleges of India for whom it has been written.

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1. This book is structured into several chapters, namely:

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