

# 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

**Rama S. Singh, Marcy K. Uyenoyama**



## **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.

*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 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

**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

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

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Spaceship Earth in the Environmental Age, 1960-1990 Sabine Hölzer, 2015-10-06 The idea of the earth as a vessel in space came of age in an era shaped by space travel and the Cold War Hölzer's study brings together technology science and ecology to explore the way this latter day ark was invoked by politicians environmentalists cultural historians writers of science fiction and many others across three decades

Population Systems Alan A. Berryman, 2013-12-11

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