

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

Adam Lomnicki



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.

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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

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