

## 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:

- ① Recall all definitions, such as: system, equilibrium, population, Hardy-Weinberg principle, community, individuals, gene pool, natural selection, mutation, niche, density, mortality, immigration, diversity, configuration, r-selected, K-selected
- ② Define the Hardy-Weinberg principle. Explain why it's significant in population gene-pool stability and homeostasis.
- ③ Explain how: genetic drift, natural selection, gene flow, non-random mating, bottleneck effects, founder effects, mutation, and mutation all contribute to the genetic diversity of a gene pool.
- ④ Use the Hardy-Weinberg principle to determine allele and genotype frequency in a set of data by using the equation:  $p + q = 1$  and  $p^2 + 2pq + q^2 = 1$ .
- ⑤ Explain how mutations and natural selection are at the molecular level and how they affect each other.
- ⑥ Correctly apply significant digits when making calculations.
- ⑦ Explain predation, herbivory, and commensalism-induced interactions.
- ⑧ Define competition, mutualism, and parasitism.
- ⑨ Differentiate between: intraspecific and interspecific competition.
- ⑩ Give examples of density-dependent and density-independent predation and competition.
- ⑪ Explain how populations undergo many changes over time or they are at climax community.
- ⑫ Define primary, secondary, and tertiary succession.
- ⑬ Analyze succession patterns over time.
- ⑭ Calculate change in population size using the formula:  $\Delta N = [\text{mortality} + \text{immigration}] - [\text{mortality} + \text{emigration}]$ .
- ⑮ Use formulas to calculate: growth rate, per capita growth rate, and population density.
- ⑯ Identify 4 growth patterns as either logistic (S-shaped) or exponential (J-shaped).
- ⑰ Explain the difference between open and closed populations.
- ⑱ Identify 4 species as r or K selected based on characteristics or reproductive strategies.
- ⑲ Explain how environmental factors can affect population growth.
- ⑳ Analyze graphically data on r or K selected species.

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**Population Dynamics and the Tribolium Model: Genetics and Demography** Robert F.

Costantino, Robert A. Desharnais, 2012-12-06 The study of populations is becoming increasingly focused on dynamics We believe there are two reasons for this trend The first is the impact of nonlinear dynamics with its exciting ideas and colorful language bifurcations domains of attraction chaos fractals strange attractors Complexity which is so very much a part of biology now seems to be also a part of mathematics A second trend is the accessibility of the new concepts The barriers to communication between theorists and experimentalists seem less impenetrable The active participation of the experimentalist means that the theory will obtain substance Our role is the application of the theory of dynamics to the analysis of biological

populations We began our work early in 1979 by writing an ordinary differential equation for the rate of change in adult numbers which was based on an equilibrium model proposed a decade earlier During the next few months we filled our notebooks with straightforward deductions from the model and its associated biological implications Slowly some of the biological observations were explained and papers followed on a variety of topics genetic and demographic stability stationary probability distributions for population size population growth as a birth death process natural selection and density dependent population growth genetic disequilibrium and the stationary stochastic dynamics of adult numbers

### **Animal**

**Population Dynamics** R. Moss, Adam Watson, J. Ollason, 1982-10-31 This text on animal population dynamics should be of interest to those studying ecology population dynamics and pest control

### **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

### **Cracking the AP**

**Biology Exam** Kim Magloire, Princeton Review (Firm), 2004 This updated series by Princeton Review helps students pass the challenging Advance Placement Test with targeted study for each exam of the series

### The Population Dynamics of

Infectious Diseases: Theory and Applications Roy M. Anderson, 2013-11-22 Since the beginning of this century there has been a growing interest in the study of the epidemiology and population dynamics of infectious disease agents Mathematical and statistical methods have played an important role in the development of this field and a large and sophisticated literature exists which is concerned with the theory of epidemiological processes in populations and the dynamics of epidemic and endemic disease phenomena Much of this literature is however rather formal and abstract in character and the field has tended to become rather detached from its empirical base Relatively little of the literature for example deals with the practical issues which are of major concern to public health workers Encouragingly in recent years there are signs of an increased awareness amongst theoreticians of the need to confront predictions with observed epidemiological trends and to pay close attention to the biological details of the interaction between host and disease agent This trend has in part been stimulated by the early work of Ross and Macdonald on the transmission dynamics of tropical parasitic infections but a further impetus has been the recent advances made by ecologists in blending theory and observation in the study of plant and animal populations

### Research Awards Index, 1981

### Resources in Education, 1998

### **Undergraduate**

**Announcement** University of Michigan--Dearborn, 1983

### **New Zealand Journal of Zoology**, 1979-03

### Ecology of

Wildlife Host-Parasite Interactions Bryan T. Grenfell, 1995 This new collection of articles edited by Bryan T Grenfell includes Factors affecting the evolution of virulence nematode parasites of fig wasps Maintenance of a microparasite infecting several host species in the Serengeti Wildlife disease and conservation in Hawaii pathogenicity of avian malaria Plasmodium relictum

in experimentally infected Iiwi Vestiaria coccinia      **Environmental Protection Research Catalog: Indexes** Smithsonian Science Information Exchange,1972      *Peterson's Annual Guides/graduate Study Peterson's Guides, Inc,1982*      [Analysis and Management of Animal Populations](#) Byron K. Williams,James D. Nichols,Michael J. Conroy,2002-05-16 Analysis and Management of Animal Populations deals with the processes involved in making informed decisions about the management of animal populations It covers the modeling of population responses to management actions the estimation of quantities needed in the modeling effort and the application of these estimates and models to the development of sound management decisions The book synthesizes and integrates in a single volume the methods associated with these themes as they apply to ecological assessment and conservation of animal populations Integrates population modeling parameter estimation and decision theoretic approaches to management in a single cohesive framework Provides authoritative state of the art descriptions of quantitative approaches to modeling estimation and decision making Emphasizes the role of mathematical modeling in the conduct of science and management Utilizes a unifying biological context consistent mathematical notation and numerous biological examples      *Relations Between Habitat Variability and Population Dynamics of Bass in the Huron River, Michigan* Ken D. Bovee,Tammy J. Newcomb,Thomas G. Coon,1994      [Advances in the Evolutionary Ecology of Termites](#) Alberto Arab,Solange Del Carmen Issa Ponce,Daniel Aguilera-Olivares,2023-08-16 Termites are eusocial insects that live in colonies composed of hundreds to millions of individuals Their colonies are mainly organized into reproductive and non reproductive castes which have specific tasks such as nest construction foraging reproduction brood care and colony defense The evolution of the symbiotic association between termites and microorganisms allows them to decompose ingested lignocellulose from plant substrates such as wood including herbivore dung and soil humus making them important insect decomposers that play a crucial role in ecosystem functioning by contributing to litter decomposition soil formation and nutrient cycling On the other hand termites have recently been classified as eusocial cockroaches which have gained increasing attention in evolutionary studies to understand the transition to eusociality from subsocial wood roaches This current growing interest in termite research calls for a collection dedicated to these fascinating insects      [Subject Index of Current Research Grants and Contracts Administered by the National Heart, Lung and Blood Institute](#) National Heart, Lung, and Blood Institute,1978      *Study Guide to Zoology* Cybellium, Welcome to the forefront of knowledge with Cybellium your trusted partner in mastering the cutting edge fields of IT Artificial Intelligence Cyber Security Business Economics and Science Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT Al Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges Comprehensive Coverage Whether you're a beginner or an advanced learner Cybellium books cover a wide range

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