

Population Dynamics

Topic: Population Dynamics

Week 10: Exam

Student: [Name]

Answer the following questions to the best of your ability. You have 30 minutes to complete this exam. The questions cover population dynamics, including growth rates, carrying capacity, and the effects of environmental factors on population size.

Part 1: Population Growth

1. The **exponential growth** model assumes that a population grows at a constant rate, leading to exponential growth. This model is only valid for small populations or short time periods where resources are not limiting. Explain the assumptions of the exponential growth model and why it is not realistic for most populations in the long term.

Part 2: Environmental Carrying Capacity

2. The **logistic growth** model introduces the concept of carrying capacity (K), which is the maximum number of individuals an environment can support.

a. Write the logistic growth equation and explain the meaning of each term.

$$\frac{dN}{dt} = rN \left(1 - \frac{N}{K} \right)$$

b. Describe the difference between exponential growth and logistic growth. Under what conditions would a population exhibit logistic growth?

$$\text{Logistic growth occurs when resources are limited, leading to a carrying capacity.}$$

Part 3: Exploring the Exponential Growth Model

3. The graph of the exponential growth model shows a J-shaped curve. Explain the shape of this curve and why it is not realistic for most populations in the long term.

$$\text{The exponential growth model is not realistic for most populations in the long term because it assumes unlimited resources, which is not true in nature.}$$

4. The logistic growth model is represented by an S-shaped curve. Explain the shape of this curve and why it is more realistic than the exponential growth model.

Variable	Meaning	Value
N	Population size	1000
r	Intrinsic growth rate	0.1
K	Carrying capacity	1000
dN/dt	Rate of population change	100

5. The logistic growth model is represented by an S-shaped curve. Explain the shape of this curve and why it is more realistic than the exponential growth model.

6. The logistic growth model is represented by an S-shaped curve. Explain the shape of this curve and why it is more realistic than the exponential growth model.

$$\text{The logistic growth model is represented by an S-shaped curve.}$$

Population Dynamics Lab Answers

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