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# Biology 301 - Ecology and Evolution - Chapter 12 Exam Questions With All Correct Detailed Answers A+ Pass

What is demography? - Answer ✓✓- The study of (the structure and growth of) populations

What type of techniques does demography use to predict the growth of populations (both natural and laboratory)? - Answer ✓✓- Mathematical techniques.

What basic processes have direct effects on population size? - Answer ✓✓- Births & immigration (cause population increase) along with Deaths and Emigration (cause population decrease).  $\Delta N = (B+I) \text{ minus } (D+E)$ .

What does a geometric (discrete) growth model represent? - Answer ✓✓- A model of population growth that compares population sizes at regular time intervals, showing how populations with discrete generations and discrete reproductive bouts fluctuate in seasonal patterns of population increase and decrease.

What is the equation for geometric (discrete) growth model for multiple time intervals? - Answer ✓✓-  $N_t(t) = N_{(0)}\lambda^{(t)}$

What does lambda ( $\lambda$ ) in the geometric (discrete) growth model represent? - Answer ✓✓- It is the ratio of population size at any time to the population size 1 time unit earlier, or the "per capita growth rate" / "finite rate of increase".

What happens when  $\lambda=1$ ? - Answer ✓✓- The population is constant.

What happens when  $\lambda<1$ ? - Answer ✓✓- The population is decreasing.

What happens when  $\lambda>1$ ? - Answer ✓✓- The population is increasing.

What does the exponential (continuous) growth model represent? - Answer ✓✓- A model of population growth in which the population increases continuously at an exponential rate, has overlapping generations with year round reproduction and exhibits smooth curve of population increase as a function of time.

What is the equation for exponential (continuous) growth model? - Answer ✓✓-  $N_t(t) = N_{(0)}e^{(rt)}$  where  $N$  = # of individuals after  $t$  time units,  $N_{(0)}$  = the initial population size,  $r$  = exponential growth rate / instantaneous rate of increase,  $t$  = time units and  $e$  = base of the natural logs ( $\sim 2.72$ ).

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