#### **Biology Study Guide CH 5 Populations**

#### Application Test!!

- The # of individuals per unit area is a population's
- 2. If the DEATH rate is GREATER than the BIRTHRATE, the population
- 3. Under conditions of Logistic Growth, population size will rise & fall around an average point called the
- One of the best known mechanisms of population control is the \_\_\_\_\_\_ relationship.
- Human activities, such as damming rivers, are all density \_\_\_\_\_\_ limiting factors.
- 6. Density \_\_\_\_\_ limiting factors affect ALL populations regardless of size.
- 7. Which limiting factors play a role in population growth?
- 8. List four characteristics of a population.
- 9. Describe the relationships that exist between sea otters, kelp, sea urchins, & killer whales.
- 10. There are 65 cows per square mile in a certain pasture in White Plains. To which population characteristic does this information refer?
- 11. What does RANGE of a population tell you that DENSITY DOES NOT?
- 12. Be able to determine the population density mathematically from a word problem!!
- 13. The # of \_\_\_\_\_\_ per \_\_\_\_ of \_\_\_\_\_ tells you population density...hint hint.
- 14. \_\_\_\_\_-the movement of organisms INTO a given area from another area.
- 15. \_\_\_\_\_-the movement of organisms OUT of the population.
- Using birthrate & deathrate...tell what happens when a population is growing & what happens when a population decreases.
- 17. If immigration & emigration #'s remain equal. What is the most important contributing factor to a slowed growth rate?
- What are ways that a population can decrease in size? (use comparisons of birthrate, death-rate, immigration & emigration in your answers);
- -when individuals in a population reproduce at a constant rate.
- 20. The various growth phases through which most populations go are represented on what type of curve?
- 21. What factors (4) contribute to an exponential growth rate in a given population?
- 22. In a LOGISTIC GROWTH CURVE, exponential growth is the phase in which the population
- 24. What reduces competition within a species population?
- 25. Be able to pick out Density-dependent & Density-Independent Limiting factors!! (\*Grad Exam Material!!)
- 26. Define demography.
- 27. What is demographic transition.
- 28. Why must wildlife biologists consider Immigration & Emigration when studying certain animals?
- 29. SCIENCE SKILLS...you will have three graphs: 2 of the graphs show the Growth Rate vs. Days for 2 different microscopic organisms...One type of organism on each graph. The 3<sup>rd</sup> graph shows the 2 microorganisms grown together in the same culture. You will be asked to answer questions based on these 3 graphs. The names of the micro-organisms are P. aurelia & P. caudatum.

# **Measuring Populations Modern Biology Study Guide**

**Albert Towle** 

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