**Population Study Guide Test 2/27/15 (Snow Day Edit)**

1. What is the symbiotic relationship between a Canadian lynx and a snowshoe hare? Predation
2. Which symbiotic relationship is neither species harmed in? Mutualism
3. How are orchids growing on high branches of tropical trees an example of commensalism?

Orchids get sunlight; Trees are not affected

1. What is the difference between a predator and a parasite?

Predators “kill” the prey (consume) vs. the Parasite (live in or on ) host; want to keep it living.

1. Know examples of parasites. Tick; Leach, Tapeworm
2. How do parasitic relationships operate? Parasite doesn’t intend to Kill the Host; just to live in or on the Host
3. What is the density of a population? Warm Up-- the number of individuals per unit area.
4. If a species of plant has exponential growth in an area where it has never lived, what is the reason for the exponential growth? More access to resources (food) and better environment (hygiene)
5. What is the carrying capacity of an environment determined by? Warm up- supply of the most limited resources.
6. What factor contributes to the exponential growth of human populations?
7. What type of age structure do countries with high growth rates usually have?

More younger people than older, birth rate > death rate

1. What factors cause population to decrease in a region? Decreased survivorship; decreased fertility raters; increased emigration rates,
2. What are density, distribution, and growth rate examples of? Population
3. What would happen if a population of adults only had enough children to replace themselves?
4. What properties are used to describe a population? Numbers of Individuals in the population
5. How does educating women worldwide lower birthrates?

Contribute for finance of family, learn family planning

1. Which region of the world is experiencing the biggest increase in population? Asia
2. What factors make it difficult to reduce population growth?

Lower literacy and Limited access to Healthcare

1. What types of factors would cause a country to have declining birthrate?

Higher education-🡪industrially developed country

1. What are demographers? Professionals that make predictions about human populations
2. Since the birthrates have begun to fall, what will happen to earth’s population?

Stabilize to approximately 9 billion by 2050

1. How are countries which have entered the third stage of demographic transition characterized?

Various social conditions that favor (smaller family sizes) (education, opportunity for employment)

1. What happens to the death rate during stage 2 of a population’s demographic transition?
2. What kind of organism only obtains energy from producers? Herbivore
3. What are consumers? “organisms that eat other organisms” aka Heterotrophs
4. Know examples of a population. Group of the SAME organisms in the SAME Place; Same Time
5. Be able to label interactions between organisms.
6. Predict what might happen to the population of rabbits and coyote if the rabbits exceed the carrying capacity of the environment. Explain your reasoning. (Short answer-Must be in F.A.T. format)
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8. Draw or explain an example of how carrying capacity limits a population's growth. See Blog
9. Be able to calculate population size based on a graph.
10. Know dispersion types and be able to explain them. See blog