***Populations Questions Chapter 19***

***Read pages 381 – 388. Answer the questions below.***

***1. Define population.***

1. ***How are boundaries determined***
2. ***Why is the size of a population difficult to measure***
3. ***Describe how scientists estimate a population***
4. ***Define population density***
5. ***What is the population density of the U.S.***
6. ***define dispersion***
7. ***Describe the three dispersion patterns:***

* ***Random***
* ***Uniform***
* ***clumped***
* ***explain why they might occur***

1. ***Why are populations dynamic?***
2. ***What is used to measure a population’s dynamics***
3. ***define:***
   1. ***birth rate***
   2. ***death rate***
   3. ***life expectancy***
4. ***Define age structure***
5. ***define mortality***
6. ***what is a survivorship curve***
7. ***Describe the 3 types of curves and when they might occur and produce what?***
8. ***define growth rate***
9. ***what are the 4 processes that affect population***
10. ***Define:***
    1. ***Birth***
    2. ***Death***
    3. ***Immigration***
    4. ***emigration***
11. ***How are large populations divided to determine size? give and example***
12. ***define exponential growth***
13. ***Why does the exponential model not apply to most populations?***
14. ***define limiting factor***
15. ***How does limiting factor affect the growth of a species? (competition)***
16. ***describe the graph***
17. ***define carrying capacity***
18. ***What are some assumptions of the logistic model?***
19. ***Are the exponential model and the logistic model real – life? How are the models used?***
20. ***Describe the two kinds of limiting factors***
    1. ***Density – independent factors***
       1. ***Describe***
       2. ***Example***
       3. ***Results in***
    2. ***Density dependent factors***
       1. ***Describe***
       2. ***Example***
       3. ***Results in***
21. ***Why do populations fluctuate?***
22. ***Describe the perils or problems that small populations may face***