Name:	Period:	Date:

## **Chapter 14: Interactions in Ecosystems - C**

**Multiple Choice**: Choose the letter of the BEST answer.

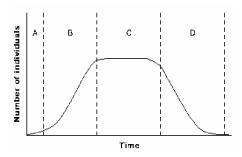
- 1. Which of the following does *not* represent a population?
  - A all the robins in Austin, Texas
  - (B) all the grass frogs in the pond of Central Park, New York City
  - © all the birds in Chicago, Illinois
  - D all the earthworms in Yosemite National Park
- 2. Because individuals in a population usually tend to produce more than one offspring,
  - A populations tend to increase in size.
  - B populations remain stable in size.
  - © individuals tend to die quickly.
  - D the number of individuals declines rapidly.
- 3. As a population reaches its carrying capacity, resources become more scarce. Which of the following would increase within the population?
  - (A) birthrate
  - (B) available shelter
  - © nesting sites
  - ① competition
- 4. Which of the following is *not* an abiotic factor that affects population size?
  - (A) weather
  - (B) climate
  - © available water
  - D human impact

- 5. Which is a biotic factor that affects population size?
  - (A) temperature
  - (B) food
  - © precipitation
  - D available sunlight
- 6. plentiful resources: increasing growth rate::
  - A competition: exponential growth
  - B carrying capacity: decreasing growth rate
  - © limited resources : decreasing death rate
  - (D) emigration : increasing birthrate
- 7. As the density of a population increases, the effects of starvation and disease also often increase. These are which kind of factors?
  - A density-independent
  - (B) abiotic
  - © symbiotic
  - (D) density-dependent
- 8. The human population began to grow exponentially during the middle of the 1700s due to the
  - A development of agriculture.
  - (B) increased immigration.
  - © Industrial Revolution.
  - (D) decline of the Ice Age.
- 9. Better sanitation, hygiene, and disease control have had which effect on the human population?
  - (A) increased the birthrate
  - B encouraged emigration
  - © decreased the death rate
  - (D) encouraged immigration

- 10. Vaccines have contributed to human population growth by
  - A lowering the death rate.
  - B increasing the death rate.
  - © increasing the birthrate.
  - D lowering the birthrate.

- 11. The world human population is presently
  - (A) less than 6 billion.
  - B more than 6 billion.
  - © more than 10 billion.
  - (D) less than 5 billion.

## **Population Growth Over Time**



- 12. Refer to the illustration above. Which time period shows exponential growth of the population?
  - A period A
  - (B) period B
  - © period C
  - D period D
- 13. Refer to the illustration above. During which time period are the birthrate and death rate equal?
  - (A) period A
  - B period B
  - © period C
  - D period D
- 14. Refer to the illustration above. During which time period will the growth rate of the population be zero?
  - (A) period A
  - (B) period B
  - © period C
  - D period D

- 15. Refer to the illustration above. The time period during which the rate of growth of a population would have a negative value is
  - A period A.
  - B period B.
  - © period C.
  - D period D.