Trophic Cascade Pre-Test NAME:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Please write the letter of the best answer on the line provided.

\_\_\_\_\_\_1. When was the keystone species concept first described?

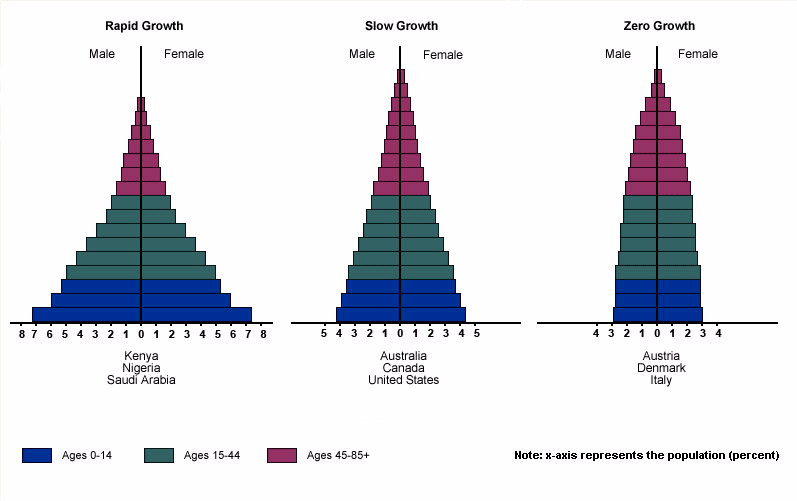
1. 1858 B. 1917 C. 1942 D. 1969

\_\_\_\_\_\_2. Who discovered the keystone species concept?

1. Rachel Carson B. Paul Ehrlich C. Robert Paine D. Sergei Winogradsky

\_\_\_\_\_\_3. Which of the following functions as the keystone species in a Pacific tidal pool environment?

1. Gooseneck barnacle
2. Starfish
3. Mussel
4. Algae
5. Sea snail

\_\_\_\_\_\_4. The diagram at right illustrates: 

1. A population growth curve.
2. Growth rate predictions.
3. An age structure diagram.
4. A population projection.

Circle the word that best completes the sentence:

5. With the removal of a predator, you would anticipate biodiversity will ( increase / decrease ).

6. A cougar feeding on a mule deer could have a ( direct / indirect ) effect on the butterflies in the community.

7. You would predict moose herbivory to ( increase / decrease ) soil nutrient levels.

8. In a riparian ecosystem, you would predict the presence of apex predators to ( increase / decrease ) soil erosion on stream banks.