

1. Which term describes the bird and the cat in the following pattern of energy flow?

sun → grass → grasshopper → bird → cat

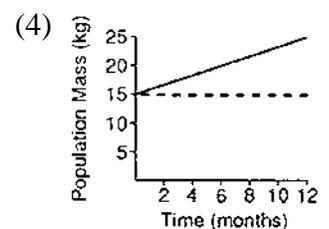
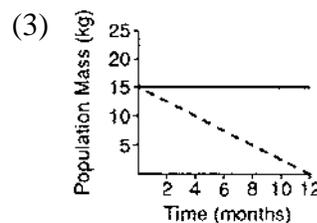
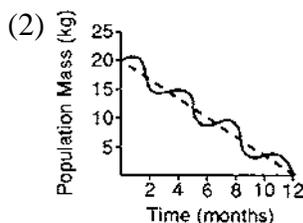
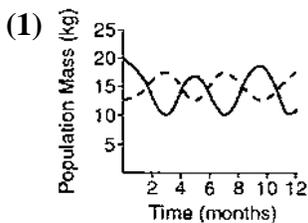
- (1) herbivores (2) saprophytes (3) **predators** (4) omnivores

2. An owl cannot entirely digest the animals it preys upon. Therefore, each day it expels from its mouth a pellet composed of fur, bones, and sometimes cartilage. By examining owl pellets, ecologists would be able to determine the

- (1) **consumers that owls prefer** (3) organisms that feed on owls
(2) autotrophs that owls prefer (4) saprophytes that affect owls

3. Which graph best represents a predator-prey relationship in a stable ecosystem?

Key: - - - - - Predator
 ———— Prey



4. Lions and hawks hunt and kill other living things before eating them. Based on this mode of nutrition, lions and hawks are classified as

- (1) **predators** (2) scavengers (3) saprophytes (4) decomposers

5. A characteristic shared by both predators and parasites is that they

- (1) feed on decomposing plant material (3) live inside their hosts
(2) capture and kill animals for food (4) **attack a living food source**

6. An overpopulation of deer in a certain area will most likely lead to

- (1) a decrease in the number of predators of the deer
(2) an increase in the number of autotrophs available for food
(3) a decrease in the incidence of disease
(4) **an increase in competition between the deer**

7. Which organisms would most likely have a predator-prey relationship?

- (1) tapeworm and dog (2) barnacle and whale (3) **hawk and mouse** (4) rabbit and grass

8. Which pair of organisms represents a predator-prey relationship?

- (1) **owl and mouse** (2) protozoan and termite (3) tapeworm and dog (4) deer and apple tree

9. Animals that feed exclusively on herbivores are known as

- (1) primary consumers (2) **carnivores** (3) omnivores (4) producers

10. Which relationship best describes the interactions between lettuce and a rabbit?

- (1) predator — prey (3) parasite — host
(2) **producer — consumer** (4) decomposer — scavenger