Survival

- The amount of light, temper availability of f the organism a survival.
- These factors or day and year.

Daily adaptations include:

- · plants closing their flowers at night for protection.
- animals that are nocturnal and sleep during the day to avoid predators.

Yearly adaptations include:

- animals hibernating, growing thick coats, migrating to warmer areas and storing food.
- plants losing their leaves in winter and flowers dying off as there are fewer birds or insects to pollinate them.

The diagram below on the right shows a fox and an owl both trying to catch a rabbit.

The fox and the owl are both

(a) finding a mate. (b) competing for food. (c) seeking shelter.

2. Since green plants make their own food, they are called

(a) predators.

(b) prey.

(c) decomposers.

(d) producers.

Which structure of a bird is correctly paired with its function?

(a) Claws for obtaining food.

(b) Wings for eliminating waste.

(c) Feathers for breathing.

(d) Eyes for growing.

- 4. Predators such as wolves and coyotes - and even bears - are moving closer to highly populated areas. This is posing an increased danger to people, so predator populations are being culled (reduced in number). This can have a devastating effect on the ecosystem, because without the natural control
 - (a) prey will also be reduced.
 - (b) prey will become overpopulated.
 - (c) prey will be kept in check.
 - (d) vegetation will be overgrown.
- A population of mice, some with light-coloured fur and some with dark-coloured fur, is introduced into a field with dark soil. A few generations later, the majority of the mice have dark-coloured fur. Which of the following best explains the change?
 - (a) Light-coloured mice can run faster.
 - (b) Dark-coloured mice have fewer offspring.
 - (c) Light-coloured mice have changed colour over generations.
 - (d) Dark-coloured mice are better able to hide from their predators.
- When two animals live in the same area and depend on the same organism for food, they are
 - (a) competing.
- (b) decomposing.
- (c) germinating.
- (d) hibernating.
- Why do some animals hibernate in the winter?
 - (a) To find food for their young.
 - (b) To adapt to environmental changes.
 - (c) To attract a mate.
 - (d) To avoid predators.
- A spider building its web is an example of
 - (a) imitation. (c) conditioning.
- (b) instinct.
- (d) imprinting.

- Young geese will sometimes treat a person as their mother. What is this an example of?
 - (a) Instinct.
- (b) Imitation.
- (c) Imprinting.
- (d) Conditioning.
- If a rat is given a mild electric shock when it goes to a certain part of its cage, it will eventually avoid going there. This is because of
 - (a) conditioning.
- (b) instinct.
- (c) imprinting.
- (d) imitation.
- 11. In which environment would a white rabbit be best protected from predators?
 - (a) A shady forest.
- (b) A snowy field.
- (c) A grassy lawn.
- (d) A muddy riverbank.
- A duck's feathers are covered with a natural oil that keeps the duck dry. This is a special feature ducks have that helps them
 - (a) feed their young. (b) adapt to their environment.
 - (c) attract a mate.
- (d) search for food.
- Many birds fly north for the winter. This adaptation is called
 - (a) hibernation.
- (b) germination.
- (c) migration.
- (d) communication.
- The introduction of a new species to an area will likely negatively impact the native species in that area. Scientists call this introduction of new species
 - (a) bio-invasion.
- (b) biodiversity.
- (c) bio-hazardous.
- (d) bio-magnification.
- The fur of a snowshoe rabbit changes to white during the winter. This change is an example of
 - (a) adaptation.
- (b) competition.
- (c) metamorphosis.
- (d) metabolism.
- The owl butterfly has patterns on its wings that look like large eyes. How does this help the butterfly survive?
 - (b) It helps the butterfly see better.
 - (a) It helps the butterfly fly faster. (c) It helps the butterfly scare enemies.
- (d) It helps the butterfly absorb sunlight.



- Butterflies get food from the flowers of a plant. They also lay their eggs on the leaves of a plant. As the caterpillars develop, they eat the leaves of the plant. How does the plant benefit from butterflies?
 - (a) Butterflies help the plant grow larger flowers.
 - (c) Butterflies help pollinate flowers so that seeds can form.
- (b) Butterflies' eggs help the leaves to fall off the plant.
- (d) Butterflies help add nutrients to the nectar of the flowers.



- The drawing on the left shows a woodpecker using its long, sharp beak to obtain insects. What factor might contribute to the extinction of this species of woodpecker?
 - (a) A new source of food.
- (b) An overabundance of trees.
- (c) The use of pesticides in the forest.
- (d) An increase in the population of insects.
- A troglobite is any animal that lives in dark caves. These animals have special features that help them live in cool, dark places, like the caves. A population of troglobite cave fish is moved from cave habitat to an open-air pond. The cave-fish population in the open-air pond will most likely
 - (a) increase because their food supply increase.
 - (b) decrease because they are too large to live in a pond.
 - (c) increase because their reproduction rate will increase.
 - (d) decrease because they do not have features needed to survive in sunlight.