

Nature and Wildlife Knowledge Quiz

Natural Science · Practice Test · 8 Questions

1. Which of the following describes the primary role of mycorrhizal fungi in forest ecosystems?

- A) They produce oxygen through photosynthesis.
- B) They form symbiotic relationships with tree roots to help absorb water and nutrients.
- C) They act as the primary predators of soil-dwelling insects.
- D) They are responsible for the decomposition of volcanic rock into soil.

2. What is the main biological purpose of bioluminescence in deep-sea anglerfish?

- A) To regulate internal body temperature in cold water.
- B) To attract prey in the darkness of the midnight zone.
- C) To communicate complex social structures to other fish.
- D) To provide a warning signal to larger marine predators.

3. Which atmospheric layer contains the ozone layer that protects Earth from ultraviolet radiation?

- A) Troposphere
- B) Mesosphere
- C) Stratosphere
- D) Thermosphere

4. How do deciduous trees typically survive harsh winter conditions?

- A) They develop a thick layer of frost on their leaves for insulation.
- B) They increase their rate of photosynthesis to generate internal heat.
- C) They shed their leaves to reduce water loss and enter a dormant state.
- D) They migrate their root systems deeper into the ground to reach warmer soil.

5. What is the process by which carbon dioxide is converted into glucose by plants?

- A) Respiration
- B) Transpiration
- C) Photosynthesis
- D) Oxidation

6. Which group of animals is characterized by being cold-blooded, having scales, and breathing with lungs?

- A) Amphibians
- B) Reptiles
- C) Mammals
- D) Birds

7. What is the primary substance that gives green plants their color and allows them to absorb light energy?

- A) Chlorophyll
- B) Carotene
- C) Anthocyanin
- D) Xanthophyll

8. In an ecosystem, which level of the food chain contains the highest amount of energy?

- A) Tertiary consumers
- B) Secondary consumers
- C) Primary consumers
- D) Producers