

Nature and Wildlife Knowledge Quiz

Natural Science · Answer Key · 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