

Environmental Science Knowledge

Environmental Science · Answer Key · 12 Questions

1. Which process do plants use to convert sunlight into chemical energy?

- A) Respiration
- B) Photosynthesis**
- C) Transpiration
- D) Fermentation

2. What is the primary gas that makes up the Earth's atmosphere?

- A) Oxygen
- B) Carbon Dioxide
- C) Nitrogen**
- D) Hydrogen

3. Which biome is characterized by low temperatures and a layer of permanently frozen subsoil?

- A) Tundra**
- B) Taiga
- C) Savanna
- D) Chaparral

4. What is the term for the maximum population size of a species that an environment can sustain indefinitely?

- A) Growth rate
- B) Biotic potential
- C) Carrying capacity**
- D) Niche overlap

5. Which animal group is considered the most diverse class of vertebrates on Earth?

- A) Mammals
- B) Birds
- C) Reptiles
- D) Fish**

6. What is the main component of the shells of coral reefs?

- A) Calcium carbonate**
- B) Silica
- C) Magnesium sulfate
- D) Sodium chloride

7. Which layer of the atmosphere contains the ozone layer that protects Earth from UV radiation?

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

8. What type of organism breaks down dead organic material into simpler substances?

- A) Producer
- B) Consumer
- C) Decomposer**
- D) Predator

9. Which gas is most commonly associated with the greenhouse effect caused by human activities like fossil fuel combustion?

- A) Nitrogen oxide
- B) Carbon dioxide**
- C) Argon
- D) Helium

10. What is the process by which fertile land becomes desert, typically as a result of drought or deforestation?

- A) Desertification**
- B) Eutrophication
- C) Salinization
- D) Bioaccumulation

11. Which marine mammal is a keystone species that helps keep kelp forests healthy by eating sea urchins?

- A) Dolphin
- B) Sea Otter**
- C) Manatee
- D) Seal

12. What is the primary source of energy for almost all ecosystems on Earth?

- A) Geothermal heat
- B) Tidal movement
- C) Sunlight**
- D) Wind