

Human Health and Ecological Connections

Ecology And Human Health · Answer Key · 15 Questions

1. Which gas do humans inhale from the atmosphere that is essential for cellular respiration?

- A) Carbon dioxide
- B) Oxygen**
- C) Nitrogen
- D) Methane

2. What is the primary source of Vitamin D for the human body, obtained through interaction with the environment?

- A) Rainwater
- B) Soil
- C) Sunlight**
- D) Wind

3. Which organ system is responsible for filtering waste products from the blood, reflecting the body's need for clean water?

- A) Urinary system**
- B) Digestive system
- C) Respiratory system
- D) Nervous system

4. What type of microorganisms live in the human gut and play a critical role in human health?

- A) Lava
- B) Microbiota**
- C) Volcanoes
- D) Meteorites

5. Which essential nutrient do humans obtain by consuming plants or animals that have absorbed it from the soil?

- A) Plastic
- B) Iron**
- C) Rubber
- D) Glass

6. What substance, found in the environment, is necessary for maintaining human body temperature and metabolic functions?

A) Gasoline

B) Water

C) Oil

D) Sand

7. Exposure to high levels of what environmental pollutant is known to damage human lung tissue?

A) Oxygen

B) Air pollution

C) Pure nitrogen

D) Clean steam

8. Which biological process in plants provides the oxygen that humans need to survive?

A) Photosynthesis

B) Digestion

C) Evaporation

D) Freezing

9. What is the term for the variety of life forms on Earth that contribute to the stability of the food supply for humans?

A) Monoculture

B) Biodiversity

C) Industrialization

D) Urbanization

10. Which internal system relies on the external environment to provide the chemical energy needed for movement?

A) Digestive system

B) Skeletal system

C) Integumentary system

D) Endocrine system

11. What do humans release into the environment as a byproduct of respiration that plants use for photosynthesis?

A) Oxygen

B) Carbon dioxide

C) Helium

D) Argon

12. Which natural resource is essential for human hygiene and the prevention of infectious diseases?

- A) Sand
- B) Clean water**
- C) Coal
- D) Ash

13. Which part of the human body acts as a barrier against environmental pathogens?

- A) Heart
- B) Skin**
- C) Liver
- D) Brain

14. What do humans obtain from eating diverse fruits and vegetables grown in healthy soil?

- A) Synthetic oil
- B) Vitamins and minerals**
- C) Polystyrene
- D) Raw petroleum

15. Which environmental factor can influence the spread of waterborne diseases in human populations?

- A) Sunlight intensity
- B) Water quality**
- C) Wind speed
- D) Soil color