

Name: \_\_\_\_\_ Date: \_\_\_\_\_

1. What is the primary source of carbon in carbon-based fuels?
  - A. Water
  - B. Dead plants and animals
  - C. Sunlight
  - D. Oxygen
  
2. How are carbohydrates related to carbon-based biology?
  - A. They are energy storage compounds.
  - B. They are a type of hydrocarbon.
  - C. They produce CO<sub>2</sub>.
  - D. They dissolve dirt and grime.
  
3. Which compound results from incomplete combustion of carbon-based fuels?
  - A. Nitrogen
  - B. Carbon monoxide (CO)
  - C. Carbon dioxide (CO<sub>2</sub>)
  - D. Oxygen (O<sub>2</sub>)
  
4. What does the term "smog" describe?
  - A. Pure oxygen in the atmosphere
  - B. A condition that looks like smoke and/or fog
  - C. A type of hydrocarbon
  - D. A greenhouse gas
  
5. Which gases in our atmosphere act like the white paint on the glass panes of a greenhouse?
  - A. Hydrocarbons
  - B. Greenhouse gases (GHG)
  - C. Nitrogen
  - D. Oxygen
  
6. What is one of the primary health concerns caused by prolonged exposure to high levels of ozone?
  - A. Enhanced vision
  - B. Premature death
  - C. Increased appetite
  - D. Improved lung capacity
  
7. Particulate matter (PM) found in the exhaust of diesel engines has been linked to:
  - A. Weight gain
  - B. Vision enhancement
  - C. Respiratory disease and cancer
  - D. Improved digestion

8. Acid rain is identified by which pH characteristic?

- A. A pH greater than 7
- B. A pH equal to 7
- C. A pH less than 7
- D. A pH equal to 8

9. The rain becomes acidic primarily due to which gases in the atmosphere?

- A. Carbon dioxide (CO<sub>2</sub>) and methane
- B. Hydrogen and helium
- C. Sulfur dioxide (SO<sub>2</sub>) and oxides of nitrogen (NO<sub>x</sub>)
- D. Oxygen and nitrogen

10. Which of the following is NOT a consequence of acid rain?

- A. Damage to the forests and soils
- B. Enhancement of fish reproduction
- C. Damage to buildings and paint on vehicles
- D. Damage to roads and sidewalks

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Chapter 7

Multiple Choice Quiz A

Answer Key

1. B

2. A

3. B

4. B

5. B

6. B

7. C

8. C

9. C

10. B