

Automotive Technology 7th Edition
Chapter 7: Health and Environmental Concerns
Short Answer Quiz

Name:

Date:

1. How does the concept of a "carbon-based society" relate to the historical usage of energy?
2. Distinguish between the roles of chlorophyll and sunlight in the process of producing glucose in plants.
3. How do hydrocarbons differ based on their molecular structure, and why is this significant for energy production?
4. Elaborate on the potentially dangerous compounds produced when carbon-based fuels are combusted.
5. What role do greenhouse gases play in temperature regulation on Earth, and how do they relate to a nursery greenhouse?

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6. How have atmospheric concentrations of significant greenhouse gases changed since the onset of large-scale industrialization?

7. Describe the natural occurrence and formation of ozone. How does its concentration and location in the atmosphere determine its beneficial or detrimental effects on human health?

8. Which man-made chemicals are responsible for the depletion of the earth's upper ozone layer, and what are their primary uses?

9. How does the intensity of UV radiation at the Earth's surface vary, and which factors influence this variation?

10. What is "column ozone", and why is it considered significant in the context of protecting the Earth from UVB and UVC radiation?