

**CHAPTER 21 STUDY GUIDE**

# Hydrocarbons

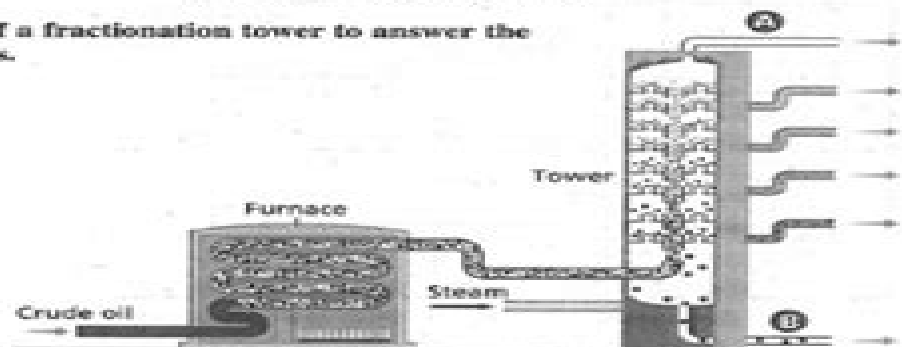
## Section 21.1 Introduction to Hydrocarbons

In your textbook, read about natural sources of hydrocarbons and rating gasolines.

In the space at the left, write the word or phrase in parentheses that correctly completes the statement.

- \_\_\_\_\_ 1. (Petroleum, Natural gas) is a mixture of thousands of organic compounds.
- \_\_\_\_\_ 2. The boiling of petroleum and collection of its components is called (sedimentation, fractional distillation).
- \_\_\_\_\_ 3. In the process known as (cracking, knocking), heavier petroleum fractions are converted to gasoline by breaking their large molecules into smaller ones.
- \_\_\_\_\_ 4. A gasoline's ability to burn evenly and prevent knocking is expressed by its (hexane, octane) rating.

Use the diagram of a fractionation tower to answer the following questions.



5. How does the temperature inside the tower vary from bottom to top? \_\_\_\_\_
6. In what physical state is the material collected from pipe A? \_\_\_\_\_
7. What is the material collected from pipe A used for? \_\_\_\_\_
8. What is the material collected from pipe B used for? \_\_\_\_\_
9. Which pipe, A or B, collects hydrocarbons with higher boiling points? \_\_\_\_\_
10. Which pipe, A or B, collects smaller hydrocarbons? \_\_\_\_\_

# Hydrocarbon Study Guide Answers

**Lingsheng Yao**

A red circular graphic with a gradient, appearing as a partial circle or a stylized 'C' shape, located to the right of the author's name.

## **Hydrocarbon Study Guide Answers:**

## Hydrocarbon Study Guide Answers Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has be much more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Hydrocarbon Study Guide Answers**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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