## Chemistry

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(Chapter 6) (General Principle and Processes of Isolation of Elements) (Exercises)

#### (Class 12)

Is filtered, dried, and heated to get back pure alumina.

Al<sub>2</sub>O<sub>3</sub>,
$$x$$
H<sub>2</sub>O<sub>(8)</sub>  $\xrightarrow{1470 \text{ K}}$  Al<sub>2</sub>O<sub>3(8)</sub> +  $x$ H<sub>2</sub>O<sub>(g)</sub>
Hydrated alumina Alumina

#### Question 6.14:

Giving examples, differentiate between 'roasting' and 'calcination'.

#### \_\_Answer 6.14:

Roasting is the process of converting sulphide ores to oxides by heating the ores in a regular supply of air at a temperature below the melting point of the metal. For example, sulphide ores of Zn, Pb, and Cu are converted to their respective oxides by this process.

2ZnS Zinc blende	+	3O2 —		-	2ZnO + 2SO <sub>2</sub>
2Pb	2PbS + Galena		Δ		2PbO + 2SO <sub>2</sub>
2Cu <sub>2</sub> S	+	3O <sub>2</sub> -	Δ		2Cu <sub>2</sub> O + 2SO <sub>2</sub>

On the other hand, calcination is the process of converting hydroxide and carbonate ores to oxides by heating the ores either in the absence or in a limited supply of air at a temperature below the melting point of the metal. This process causes the escaping of volatile matter leaving behind the metal oxide. For example, hydroxide of Fe, carbonates of Zn, Ca, Mg are converted to their respective oxides by this process.

#### Question 6.15:

How is 'cast iron' different from 'pig iron'?

#### \_\_Answer 6.15:

The iron obtained from blast furnaces is known as pig iron. It contains around 4% carbon and many impurities such as S, P, Si, Mn in smaller amounts.

Cast iron is obtained by melting pig iron and coke using a hot air blast. It contains a lower amount of carbon (3%) than pig iron. Unlike pig iron, cast iron is extremely hard and brittle.

#### Question 6.16:

Differentiate between "minerals" and "ores".

#### \_\_Answer 6.16:

- Minerals: Minerals are naturally occurring chemical substances containing metals. They are found in the Earth's crust and are obtained by mining.
- > Ores: Ores are rocks and minerals viable to be used as a source of metal.

For example, there are many minerals containing zinc, but zinc cannot be extracted profitably (conveniently and economically) from all these minerals.

Zinc can be obtained from zinc blende (ZnS), calamine (ZnCO3), Zinicite (ZnO) etc.

Note: All ores are minerals but all minerals are not ores.

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# **Mastering Chemistry Answers Chapter 6**

Jason Chin, Vault Reports (Firm), Job Vault

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some of the more contentious debates about pedagogy leads to the advice to seek optimally guided instruction which balances the challenge offered to learners with the level of support provided This provides a framework for discussing a wide range of teaching approaches and techniques that have been recommended to those teaching chemistry across educational levels including both those intended to replace teaching from the front and others that can be built into traditional lecture courses to enhance the learning experience Introductory Organic Biochemistry Frederick A. Bettelheim, William M. AP English Language and Composition Premium, 2024: 8 Practice Tests + Comprehensive Review + Scovell.1997-08 Online Practice George Ehrenhaft, 2023-07-04 Always study with the most up to date prep Look for AP English Language and Composition Premium 2025 Prep Book with 8 Practice Tests Comprehensive Review Online Practice ISBN 9781506291864 on sale July 2 2024 Publisher's Note Products purchased from third party sellers are not guaranteed by the publisher for quality authenticity or access to any online entities included with the product **Modern University Chemistry, Custom Pub** Norbert T. Porile,1993 Introduction to General, Organic, and Biochemistry Morris Hein, Scott Pattison, Susan Arena, Leo R. Best, 2014-01-15 The most comprehensive book available on the subject Introduction to General Organic and Biochemistry 11th Edition continues its tradition of fostering the development of problem solving skills featuring numerous examples and coverage of current applications Skillfully anticipating areas of difficulty and pacing the material accordingly this readable work provides clear and logical explanations of chemical concepts as well as the right mix of general chemistry organic chemistry and biochemistry. An emphasis on real world topics lets readers clearly see how the chemistry will apply to Organic Chemistry T. W. Graham Solomons, Craig B. Fryhle, Scott A. Snyder, 2016-01-19 The 12th edition of their career Organic Chemistry continues Solomons Fryhle Snyder's tradition of excellence in teaching and preparing students for success in the organic classroom and beyond A central theme of the authors approach to organic chemistry is to emphasize the relationship between structure and reactivity To accomplish this the content is organized in a way that combines the most useful features of a functional group approach with one largely based on reaction mechanisms. The authors philosophy is to emphasize mechanisms and their common aspects as often as possible and at the same time use the unifying features of functional groups as the basis for most chapters The structural aspects of the authors approach show students what organic chemistry is Mechanistic aspects of their approach show students how it works And wherever an opportunity arises the authors show students what it does in living systems and the physical world around us AP English Language and Composition Premium, 2023-2024: Comprehensive Review with 8 Practice Tests + an Online Timed Test Option George Ehrenhaft, 2022-08-02 Be prepared for exam day with Barron's Trusted content from AP experts Barron's AP English Language and Composition Premium 2023 2024 includes in depth content review and online practice It s the only book you ll need to be prepared for exam day Written by Experienced Educators Learn from Barron's all content is written and reviewed by AP experts Build your understanding with comprehensive review tailored to the most recent exam Get a leg up with tips

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