

**CHEM 101 Quiz #6 Chapter 6 ANSWERS****1. (4 points)**

The specific heat (s) of iron (Fe) is  $0.40 \text{ J/(g K)}$ . Calculate the heat effect  $q$  when 20 g of iron is heated from  $100^\circ\text{C}$  to  $200^\circ\text{C}$ . Include the sign!

$$q = m \cdot s \cdot \Delta T \text{ for } \Delta T \Delta K = \Delta^\circ\text{C} \quad q = 20 \times 0.40 \times (200 - 100) = +800 \text{ J}$$

You must include the units and sign in the answer!

**2. (4 points)**

The Molar Mass of Mg =  $24.0 \text{ g/mol}$ .

Calculate the enthalpy change when 2.40 g Mg(s) reacts with excess oxygen. Include the sign!

$$2.40 \text{ g Mg} = 2.40/24.0 = 0.1 \text{ mol} \rightarrow \Delta H = 0.1(\text{mol}) \times (-600)(\text{kJ/mol}) = -60 \text{ kJ}$$

Again, your answer must include both the sign and the units.

**3. (2 points)** Which one of the following four reactions is a *formation reaction*? Circle the correct answer.



*Look up the definition of a formation reaction in Chang or in your lecture notes: the compound is formed from its elements, and the elements must be as they naturally occur so e.g.  $\text{Cl}_2$  not  $\text{Cl}$ , and  $\text{H}_2$  not  $\text{H}$ !*

**CHEM 101 Section L52 Quiz #6****1. (4 points)**

The specific heat (s) of copper (Cu) is  $0.38 \text{ J/(g K)}$ . Calculate the heat effect  $q$  when 10 g of copper is heated from  $100^\circ\text{C}$  to  $300^\circ\text{C}$ . Include the sign!

$$q = m \cdot s \cdot \Delta T \text{ for } \Delta T \Delta K = \Delta^\circ\text{C} \quad q = 10 \times 0.38 \times (300 - 100) = +760 \text{ J}$$

You must include the units and sign in the answer!

**2. (4 points)**

The Molar Mass of Ca =  $40.0 \text{ g/mol}$ .

Calculate the enthalpy change  $\Delta H$  when 8.0 g Ca(s) reacts with excess oxygen. Include the sign!!

$$8.0 \text{ g Ca} = 8.0/40 = 0.2 \text{ mol} \rightarrow \Delta H = 0.2(\text{mol}) \times (-650)(\text{kJ/mol}) = -130 \text{ kJ}$$

Again, your answer must include both the sign and the units.

**3. (2 points)** Which one of the following reactions is a *formation reaction*? Circle the correct answer.



# Merrill Chemistry Chapter 8 Review Answers

**Wolfgang Guggemos**



## **Merrill Chemistry Chapter 8 Review Answers:**

*Merrill Chemistry* Robert C. Smoot, Richard G. Smith, Jack Price, 1998      *Merrill Earth Science* Ralph M. Feather, Susan Leach Snyder, Dale T. Hesser, 1995      *Physical Chemistry of Metallurgical Processes, Second Edition* Mohammad Shamsuddin, 2021-06-22 This updated second edition retains its classroom tested treatment of physical chemistry of metallurgical topics such as roasting of sulfide minerals matte smelting converting structure properties and theories of slag reduction of oxides and reduction smelting interfacial phenomena steelmaking secondary steelmaking role of halides in extraction of metals refining hydrometallurgy and electrometallurgy and adds new data in worked out examples as well as up to date references to the literature The book further explains the physical chemistry of various metallurgical topics steps involved in extraction of metals such as roasting matte smelting converting reduction smelting steelmaking reactions deoxidation stainless steelmaking vacuum degassing refining leaching chemical precipitation ion exchange solvent extraction cementation gaseous reduction and electrowinning Each topic is illustrated with appropriate examples of applications of the technique in extraction of some common reactive rare or refractory metal together with worked out problems explaining the principle of the operation The problems require imagination and critical analyses and also encourage readers for creative application of thermodynamic data in metal extraction Updates and condenses text throughout the book by sequential arrangement of paragraphs in different chapters Maximizes readers understanding of the physicochemical principles involved in extraction production of common and rare reactive metals by pyro as well as hydrometallurgical routes Reinforces concepts presented with worked examples in each chapter explaining the process steps Explains the physical chemistry of various metallurgical steps such as roasting matte smelting converting and reduction smelting steelmaking aqueous processing etc in extraction of metals Collects and uniformly presents scattered information on physicochemical principles of metal production from various books and journals      **Technical Book Review**, 1963      El-Hi Textbooks and Serials in Print, 1995 R R Bowker Publishing, 1995-02      **Natural Inorganic Hydrochemistry in Relation to Groundwater** J. W. Lloyd, J. A. Heathcote, 1985 Provides comprehensive but concise coverage of groundwater chemistry theory hydrochemical processes and methods of interpretation It has particular relevance in the study of pollution problems

**Polymorphism in Pharmaceutical Solids** Harry G. Brittain, 2018-11-12 Using clear and practical examples Polymorphism of Pharmaceutical Solids Second Edition presents a comprehensive examination of polymorphic behavior in pharmaceutical development that is ideal for pharmaceutical development scientists and graduate students in pharmaceutical science This edition focuses on pharmaceutical aspects of polymorphism a      The Chemistry Classroom James Dudley Herron, 1996 Aimed at chemists who teach at the high school and introductory college level this valuable resource provides the reader with a wealth of knowledge and insight into Dr Herron s experiences in teaching and learning chemistry Using specific examples from chemistry to illustrate principles of learning the volume applies cognitive science to

teaching chemistry and explores such topics as how individuals learn teaching problem solving concept learning language roles and task involvement Includes learning exercises to help educators decide how they should teach     *The Johns Hopkins University Circular* Johns Hopkins University,1900 Includes University catalogues President s report Financial report registers announcement material etc     **The Salt Lake Mining Review** ,1909     *Chemical Engineering Catalog* ,1922     *Mining and Engineering World* ,1906     **New Technical Books** New York Public Library,1925     **Saturday Review of Literature** ,1935-04     Study Guide, Student Edition Merrill,1994-07     Mining and Metallurgy ,1925 Contains abstracts of professional and technical papers     Students with Learning Disabilities Cecil D. Mercer,Paige C. Pullen,2005 For courses in Learning Disabilities The new edition of this popular text offers comprehensive coverage of all of the varying theories and practices in the field educational medical and psychological incorporating assessment definition characteristics and strategies A balanced treatment about the characteristics definitions causes and controversies of learning disabilities each researched based topic is clearly designed to support both diagnosis and intervention Throughout the text best practices have been identified through thorough research and practical examples     Outlook Alfred Emanuel Smith,Francis Walton,1871     Engineering and Mining Journal ,1903     The United States Catalog Mary Burnham,Carol Hurd,1928

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