

- 1) When properly balanced, the coefficient for hydrochloric acid (HCl) would be?  
 $\underline{\quad} \text{Al} + \underline{\quad} \text{HCl} \rightarrow \underline{\quad} \text{AlCl}_3 + \underline{\quad} \text{H}_2$
- 2) The potential energy diagram for a chemical reaction is shown below



Each interval on the axis labeled "Potential Energy (kJ)" represents 40 kilojoules. What is the heat of reaction ( $\Delta H$ )?

- 3) The general equation shown is a reaction that represents what type of reaction? \_\_\_\_\_ is this reaction endothermic or exothermic? (circle one)



- 4) Write a balanced equation for the word equation shown below:  
 Aluminum + Sulfuric acid  $\rightarrow$  Aluminum sulfate + hydrogen gas

- 5) A process that absorbs heat is: endothermic or exothermic (circle one) Would the products have more energy or less energy than the reactants?
- 6) The two beakers of boiling water shown below are on hot plates set at different settings. However, the water in both beakers is at the same temperature. How is the incoming energy from the hot plates being used by the water if it is not increasing the temperature?



# 2nd Semester Final Exam Review Science Answer

**Roman Wölfel**



## 2nd Semester Final Exam Review Science Answer:

**Annual Catalog - United States Air Force Academy** United States Air Force Academy,1971      **United States Air Force Academy** United States Air Force Academy,1972      *Lecture-free Teaching* Bonnie S. Wood,2009      Annual Catalogue United States Air Force Academy,1984      *Learning as a Generative Activity* Logan Fiorella,Richard E. Mayer,2015-02-05 During the past twenty five years researchers have made impressive advances in pinpointing effective learning strategies namely activities the learner engages in during learning that are intended to improve learning In *Learning as a Generative Activity* Eight Learning Strategies that Promote Understanding Logan Fiorella and Richard E Mayer share eight evidence based learning strategies that promote understanding summarizing mapping drawing imagining self testing self explaining teaching and enacting Each chapter describes and exemplifies a learning strategy examines the underlying cognitive theory evaluates strategy effectiveness by analyzing the latest research pinpoints boundary conditions and explores practical implications and future directions Each learning strategy targets generative learning in which learners actively make sense out of the material so they can apply their learning to new situations This concise accessible introduction to learning strategies will benefit students researchers and practitioners in educational psychology as well as general readers interested in the important twenty first century skill of regulating one s own learning      *Practice for the Army Tests* Arco Publishing Company,1948      *Directory of Distance Learning Opportunities* Modoc Press, Inc.,2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of the institution and the courses offered grade level and admission information tuition and fee information enrollment periods delivery information equipment requirements credit and grading information library services and accreditation      *Biology* Edward C. Gruber,1963      **Surveying and Land Information Science** ,2009      *The Teaching Portfolio* Peter Seldin,2004 This third edition continues its focus on self reflection and documenting teaching performance and has also been significantly revised and expanded Its straightforward approach practical suggestions step by step instructions and field tested recommendations will prove invaluable to those involved in evaluating and improving teaching Now organized into five parts this edition includes new information on web based electronic teaching portfolios descriptions of how seven colleges and universities have actually implemented portfolios and 22 new sample teaching portfolios from an array of disciplines and institutions All were developed under the guidance of a skilled portfolio mentor      **History of Science Syllabus Sampler** ,1992      **The National Guide to Educational Credit for Training Programs** American Council on Education,2005

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