

2009 AP® CHEMISTRY FREE-RESPONSE QUESTIONS

Answer Question 5 and Question 6. The Section II score weighting for these questions is 15 percent each.

Your responses to these questions will be graded on the basis of the accuracy and relevance of the information cited. Explanations should be clear and well organized. Examples and equations may be included in your responses where appropriate. Specific answers are preferable to broad, diffuse responses.

Reaction	Equation	ΔH_{298}°	ΔS_{298}°	ΔG_{298}°
X	$\text{C}(s) + \text{H}_2\text{O}(g) \rightleftharpoons \text{CO}(g) + \text{H}_2(g)$	$+131 \text{ kJ mol}^{-1}$	$+134 \text{ J mol}^{-1} \text{ K}^{-1}$	$+91 \text{ kJ mol}^{-1}$
Y	$\text{CO}_2(g) + \text{H}_2(g) \rightleftharpoons \text{CO}(g) + \text{H}_2\text{O}(g)$	$+41 \text{ kJ mol}^{-1}$	$+42 \text{ J mol}^{-1} \text{ K}^{-1}$	$+29 \text{ kJ mol}^{-1}$
Z	$2 \text{ CO}(g) \rightleftharpoons \text{C}(s) + \text{CO}_2(g)$	?	?	?

5. Answer the following questions using the information related to reactions X, Y, and Z in the table above.

- For reaction X, write the expression for the equilibrium constant, K_p .
- For reaction X, will the equilibrium constant, K_p , increase, decrease, or remain the same if the temperature rises above 298 K? Justify your answer.
- For reaction Y at 298 K, is the value of K_p greater than 1, less than 1, or equal to 1? Justify your answer.
- For reaction Y at 298 K, which is larger: the total bond energy of the reactants or the total bond energy of the products? Explain.
- Is the following statement true or false? Justify your answer.
 "On the basis of the data in the table, it can be predicted that reaction Y will occur more rapidly than reaction X will occur."
- Consider reaction Z at 298 K.
 - Is ΔS° for the reaction positive, negative, or zero? Justify your answer.
 - Determine the value of ΔH° for the reaction.
 - A sealed glass reaction vessel contains only $\text{CO}(g)$ and a small amount of $\text{C}(s)$. If a reaction occurs and the temperature is held constant at 298 K, will the pressure in the reaction vessel increase, decrease, or remain the same over time? Explain.

Answers Ap Chemistry 2013 Response Questions

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problems but also in qualitative problem solving The following situations are considered some general others with a focus on specific areas of chemistry quantitative problems qualitative reasoning metacognition and resource activation deconstructing the problem solving process an overview of the working memory hypothesis reasoning with the electron pushing formalism scaffolding organic synthesis skills spectroscopy for structural characterization in organic chemistry enzyme kinetics problem solving in the academic chemistry laboratory chemistry problem solving in context team based active learning technology for molecular representations IR spectra simulation and computational quantum chemistry tools The book concludes with methodological and epistemological issues in problem solving research and other perspectives in problem solving in chemistry With a foreword by George Bodner

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Oil & Gas Training Center,2020-07-01 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 291 questions and answers for job interview and as a BONUS web addresses to 288 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry **TRAC: Trends in**

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Ronning,2013-11-11 This volume represents a beginning effort to compile a history of educational psychology The project began innocuously enough several years ago when we decided to add mon material about the history of educational psychology to the undergraduate course we were teaching What seemed like a simple task became very complex as we searched in vain for a volume dealing with the topic We ended up drawing on various histories of psychology that devoted anywhere from a few paragraphs to several pages to the topic and on a very few articles addressing the issue We were

startled frankly by the apparent lack of interest in the history of our field and decided to attempt to compile a history ourselves As is the case with any edited volume the contributing authors deserve credit for its positive features They uniformly made every effort asked of them and taught us much about educational psychology Any errors or omissions are our responsibility alone *Job interview questions and answers for employment on Offshore Oil & Gas Rigs* Petrogav International Oil & Gas Training Center,2020-07-01 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 289 questions and answers for job interview and as a BONUS web addresses to 289 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry 5 Steps to a 5 AP Environmental Science, 2014-2015 Edition Linda Williams,2013-07-09 Get ready for your AP exam with this straightforward and easy to follow study guide updated for all the latest exam changes 5 Steps to a 5 AP Environmental Science features an effective 5 step plan to guide your preparation program and help you build the skills knowledge and test taking confidence you need to succeed This fully revised edition covers the latest course syllabus and provides model tests that reflect the latest version of the exam Inside you will find 5 Step Plan to a Perfect 5 1 Set Up Your Study Program 2 Determine Your Test Readiness 3 Develop Strategies for Success 4 Develop the Knowledge You Need to Score High 5 Build Your Test Taking Confidence 2 complete practice AP Environmental Science exams 3 separate plans to fit your study style Review material updated and geared to the most recent tests Savvy information on how tests are constructed scored and used **Food Chemistry in Small Bites** Patricia B O'Hara,2025-04-15 Food Chemistry in Small Bites takes readers on an up close scientific journey through the transformation of food when meals are prepared Organized in bite size digestible units this innovative text introduces students to food s molecular makeup as well as the perception of food by the five senses Using familiar foods as examples it explores what happens to ingredients when heated cooled or treated and also considers what happens when materials that don t naturally mix are forced to do so With informative full color renderings and a hands on lab section the book encourages students to think like scientists while preparing delicious dishes Readers will formulate hypotheses as to why certain foods taste hot despite being at room temperature why milk separates into curds and whey when lemon is added and other ordinary but chemically complex phenomena This book also importantly challenges readers to think critically about the future of food in the face of a warming planet

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