

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 kJ mol ⁻¹	+134 J mol ⁻¹ K ⁻¹	+91 kJ mol ⁻¹
Y	$\text{CO}_2(g) + \text{H}_2(g) \rightleftharpoons \text{CO}(g) + \text{H}_2\text{O}(g)$	+41 kJ mol ⁻¹	+42 J mol ⁻¹ K ⁻¹	+29 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 CO(g) and a small amount of 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.

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