

CHAPTER 15 REVIEW

# Chemical Equilibrium

## Teacher Notes and Answers

### Chapter 15 Introduction

#### Section A

1.  $\frac{[CO_2]^2}{[CO]^2}$

2.  $\frac{[CO_2]^2}{[CO]^2}$

3.  $\frac{[CO_2]^2}{[CO]^2}$

4.  $\frac{[CO_2]^2}{[CO]^2}$

5.  $\frac{[CO_2]^2}{[CO]^2}$

- a. constant
- b. constant

6. The values of the chemical equilibrium constants for the above reactions are the same. The concentrations of the products and the reactants are the same.

- a. 1.0
- b. 1.0

### Introduction 2

#### Section A

- 1. a.
- 2. a.
- 3. a.

- 4. a. constant
- b. constant
- c. constant
- d. constant

5. These results are the chemical equilibrium constants for the reactions. The concentrations of the products and the reactants are the same.

6. The values of the chemical equilibrium constants for the above reactions are the same. The concentrations of the products and the reactants are the same.

7. The values of the chemical equilibrium constants for the above reactions are the same. The concentrations of the products and the reactants are the same.

8. The values of the chemical equilibrium constants for the above reactions are the same. The concentrations of the products and the reactants are the same.

9. The values of the chemical equilibrium constants for the above reactions are the same. The concentrations of the products and the reactants are the same.

10. The values of the chemical equilibrium constants for the above reactions are the same. The concentrations of the products and the reactants are the same.

#### Section B

- 1. a.
- 2. a.
- 3. a.
- 4. a.  $\frac{[CO_2]^2}{[CO]^2}$  and  $\frac{[CO_2]^2}{[CO]^2}$
- 5.  $\frac{[CO_2]^2}{[CO]^2}$  and  $\frac{[CO_2]^2}{[CO]^2}$
- 6. a.
- 7. a.

8. The values of the chemical equilibrium constants for the above reactions are the same. The concentrations of the products and the reactants are the same.

9.  $\frac{[CO_2]^2}{[CO]^2}$

10. The values of the chemical equilibrium constants for the above reactions are the same. The concentrations of the products and the reactants are the same.

11.  $\frac{[CO_2]^2}{[CO]^2}$

12.  $\frac{[CO_2]^2}{[CO]^2}$

# Chapter 18 Section Review Answers

**Michal Rosen-Zvi**



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