

## → CHEMICAL EQUILIBRIUM

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**Q.1:** Justify that chemical equilibrium is dynamic in nature?

**Ans:** In reversible chemical reactions the molecules of reactions collide and convert into products. At the same time the molecules of the products are converted into reactants. When two opposing forces maintain the equal, rates then equilibrium is there and that is dynamic equilibrium in nature.

**Q.2:** When does four types of chemical equilibrium constants for a reaction become equal?

**Ans:** When we have such a reversible reaction, in which the total number of moles of reactants and products are equal then  $K_p = K_c = K_n$ . In other words  $\Delta n = 0$ , where  $\Delta n$  is the difference of number of moles of reactants and products.

**Q.3:** The change of temperature disturbs the equilibrium position and the equilibrium constant of reaction? Justify?

**Ans:** All the reversible reactions are disturbed by changing their equilibrium position and equilibrium constant by disturbing the temperature. Actually change of temperature changes the energy contents of reactants and products.

**Q.4:** Why is solubility of glucose in water is increased by increasing the temperature?

**Ans:** The solubility of glucose in water is an endothermic process. Increase of temperature pushed the system to that side where heat is absorbed, and that is the side where solubility increases.

**Q.5:** What is the nature of solution having  $\text{PH} = 7.5$ ?

**Ans:** The solution with  $\text{PH} = 7$  is neutral and having values more than 7 have greater concentration of  $\text{OH}^-$  and less concentration of  $\text{H}^+$ , so the solution is basic.

**Q.6:** What is buffer capacity?

**Ans:** Buffer capacity is a ability of a buffer to resist the change of  $\text{PH}$ , when a few drops of an acid and base is added from outside. The best buffer is obtained. (i) when  $\text{PH}$  of the buffer is equal to  $\text{Pka}$  of the acid and the concentration of the salt and acid are equal. (ii) The  $\text{OH}$  of the buffer is equal to  $\text{Pkb}$  or the base.

# Chemical Equilibrium Study Guide Answers

**Roman Wölfel**



## **Chemical Equilibrium Study Guide Answers:**

## The Enigmatic Realm of **Chemical Equilibrium Study Guide Answers**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Chemical Equilibrium Study Guide Answers** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of people who partake in its reading experience.

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