

General Chemistry II Jasperse
Acid-Base Chemistry: Extra Practice Problems

General Types/Groups of problems:

Conceptual Questions: Acids, Bases, and Conjugates, Miscellaneous	p1	K_b and pK_b , Base Strength, and using K_b or pK_b to Calculate $[OH^-]$, pOH , pH , and/or $[H^+]$	p7-10
Recognizing Strong versus Weak Acids; Recognizing Basic versus Nonbasic	p3	Recognizing Acid/Base Properties when Ionics are Dissolved in Water	p11
pH Calculations: Relationships between pH and pOH	p4	Answers	p12
K_a , Sense + Calculations: Using K_a or pK_a to Calculate $[H^+]$ and/or pH; using pH to calculate K_a or pK_a	p5		

Conceptual Questions: Acids, Bases, and Conjugates, Miscellaneous

- In the Brønsted-Lowry definition of acids and bases, an acid _____
 - is a proton donor.
 - is a proton acceptor.
 - forms stable hydrogen bonds.
 - breaks stable hydrogen bonds.
 - corrodes metals.
- In the Brønsted-Lowry definition of acids and bases, a base _____
 - is a proton donor.
 - is a proton acceptor.
 - forms stable hydrogen bonds.
 - breaks stable hydrogen bonds.
 - corrodes metals.
- In the following reaction in aqueous solution, the acid reactant is _____ and its conjugate base product is _____

$$CH_3COOH + NH_3 \rightleftharpoons CH_3COO^- + NH_4^+$$
 - CH_3COOH ; CH_3COO^-
 - CH_3COOH ; NH_4^+
 - NH_3 ; CH_3COO^-
 - NH_3 ; NH_4^+
 - CH_3COOH ; H_3O^+
- In the following reaction in aqueous solution, the acid reactant is _____, and its conjugate base product is _____

$$CH_3NH_2 + HSO_4^- \rightleftharpoons CH_3NH_3^+ + SO_4^{2-}$$
 - CH_3NH_2 ; $CH_3NH_3^+$
 - CH_3NH_2 ; SO_4^{2-}
 - HSO_4^- ; $CH_3NH_3^+$
 - HSO_4^- ; SO_4^{2-}
 - HSO_4^- ; H_3O^+
- Which of the following is the conjugate acid of the hydrogen phosphate ion, HPO_4^{2-} ?
 - $H_2PO_4^-$
 - H_3PO_4
 - HPO_4^{2-}
 - PO_4^{3-}
 - H_3O^+

General Chemistry Acid Base Practice Problems

M Carnoy



General Chemistry Acid Base Practice Problems:

General Chemistry Acid Base Practice Problems: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. General Chemistry Acid Base Practice Problems : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. General Chemistry Acid Base Practice Problems : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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