

## 19.2

## HYDROGEN IONS AND ACIDITY

## Section Review

## Objectives

1. Calculate  $K_a$  and  $K_b$  for weak acids and bases, and  $pK_a$  and  $pK_b$  for weak acids and bases.
2. Calculate  $K_a$  and  $K_b$  for weak acids and bases, and  $pK_a$  and  $pK_b$  for weak acids and bases.
3. Calculate the  $pH$  of weak acid and base solutions.

## Vocabulary

- |                            |          |                            |          |
|----------------------------|----------|----------------------------|----------|
| acid dissociation constant | 1. $K_a$ | acid dissociation constant | 1. $K_a$ |
| base dissociation constant | 2. $K_b$ | base dissociation constant | 2. $K_b$ |
| acid dissociation constant | 3. $K_a$ | base dissociation constant | 3. $K_b$ |
| base dissociation constant | 4. $K_b$ | acid dissociation constant | 4. $K_a$ |

## Key Equations

- |                                    |                                     |
|------------------------------------|-------------------------------------|
| 1. $K_a = \frac{[H^+][A^-]}{[HA]}$ | 2. $K_b = \frac{[OH^-][HB^+]}{[B]}$ |
| 3. $pH = -\log[H^+]$               | 4. $pOH = -\log[OH^-]$              |

## Part A Completion

Write the chemical formula for each of the following acids, bases, and salts, showing dissociation in water. Write the chemical formula for each of the following acids, bases, and salts, showing dissociation in water.

1. Hydrochloric acid,  $HCl$ , dissociates in water to form  $H^+$  and  $Cl^-$ .
2. Acetic acid,  $CH_3COOH$ , dissociates in water to form  $CH_3COO^-$  and  $H^+$ .
3. Ammonia,  $NH_3$ , reacts with water to form  $NH_4^+$  and  $OH^-$ .
4. Sulfuric acid,  $H_2SO_4$ , dissociates in water to form  $H^+$  and  $HSO_4^-$ .
5. Nitric acid,  $HNO_3$ , dissociates in water to form  $H^+$  and  $NO_3^-$ .
6. Hydrofluoric acid,  $HF$ , dissociates in water to form  $H^+$  and  $F^-$ .
7. Hydrobromic acid,  $HBr$ , dissociates in water to form  $H^+$  and  $Br^-$ .
8. Hydroiodic acid,  $HI$ , dissociates in water to form  $H^+$  and  $I^-$ .
9. Perchloric acid,  $HClO_4$ , dissociates in water to form  $H^+$  and  $ClO_4^-$ .
10. Phosphoric acid,  $H_3PO_4$ , dissociates in water to form  $H^+$  and  $H_2PO_4^-$ .
11. Carbonic acid,  $H_2CO_3$ , dissociates in water to form  $H^+$  and  $HCO_3^-$ .
12. Boric acid,  $H_3BO_3$ , dissociates in water to form  $H^+$  and  $BO_3^{3-}$ .
13. Silicic acid,  $H_4SiO_4$ , dissociates in water to form  $H^+$  and  $SiO_4^{4-}$ .
14. Arsenic acid,  $H_3AsO_4$ , dissociates in water to form  $H^+$  and  $H_2AsO_4^-$ .
15. Selenic acid,  $H_2SeO_4$ , dissociates in water to form  $H^+$  and  $HSO_4^-$ .
16. Telluric acid,  $H_6TeO_6$ , dissociates in water to form  $H^+$  and  $TeO_6^{6-}$ .
17. Manganic acid,  $H_2MnO_4$ , dissociates in water to form  $H^+$  and  $MnO_4^{2-}$ .
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# 19 2 Hydrogen Ions And Acidity Section Review Answers

**Kevin T. Patton, Gary A.  
Thibodeau, Andrew Hutton**



## 19 2 Hydrogen Ions And Acidity Section Review Answers:

Anatomy & Physiology (includes A&P Online course) E-Book Kevin T. Patton, 2018-01-31 Anatomy Physiology includes A P Online course E Book      *Anatomy and Physiology E-Book* Kevin T. Patton, Gary A. Thibodeau, Andrew Hutton, 2020-02-25 Renowned for its clarity and accessibility of writing style this popular volume explains the fundamental principles of human anatomy and physiology while exploring the factors that contribute to disease process Rich with helpful learning features such as Mechanisms of Disease Health Matters Diagnostic Study and Sport and Fitness this volume has been fully updated to make full reference to European healthcare systems including drugs relevant investigations and local treatment protocols The also book comes with an extensive website facility which includes a wide array of helpful lecturer resources and accompanying Brief Atlas of the Human Body and Quick Guide to the Language of Science and Medicine Anatomy and Physiology Adapted International Edition will be ideal for students of nursing and allied health professions biomedical and paramedical science operating department practice complementary therapy and massage therapy as well as anyone studying BTEC or equivalent human biology Unique Clear View of the Human Body allows the reader to build up a view of the body layer by layer Clear conversational writing style helps demystify the complexities of human biology Content presented in digestible chunks to aid reading and retention of facts Consistent unifying themes such as the Big Picture and Cycle of Life features help readers understand the interrelation of body systems and how they are influenced by age and development Accompanying Brief Atlas of the Human Body offers more than 100 full colour transparencies and supplemental images that cover body parts organs cross sections radiography images and histology slides Quick Guide to the Language of Science and Medicine contains medical terminology and scientific terms along with pronunciations definitions and word part breakdowns for terms highlighted in the text Numerous feature boxes such as Language of Science and Language of Medicine Mechanisms of Disease Health Matters Diagnostic Study FYI and Sport and Fitness provide interesting and important side considerations to the main text More than 1 400 full colour photographs and spectacular drawings illustrate the most current scientific knowledge and help bring difficult concepts to life Quick Check Questions within each chapter help reinforce learning by prompting readers to review what they just read Chapter outlines chapter objectives and study tips begin each chapter Outline summaries review questions critical thinking questions and case studies are included at the end of each chapter Study Hints found throughout the text give practical advice to students about mnemonics or other helpful means of understanding or recall Connect IT features link to additional content online to facilitate wider study Helpful Glossary and Anatomical Directions Ideal for students who are new to the subject or returning to study after a period of absence and for anyone whose first language is not English      *Anatomy and Physiology Adapted International Edition E-Book* Kevin T. Patton, Gary A. Thibodeau, Andrew Hutton, 2019-05-11 Anatomy and Physiology Adapted International Edition E Book      *Anthony's Textbook of Anatomy & Physiology - E-Book* Kevin T. Patton, Gary A. Thibodeau, 2018-03-05 Just because A P is

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## **19 2 Hydrogen Ions And Acidity Section Review Answers** Book Review: Unveiling the Power of Words

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