

Answer Key

Unit 2 Metabolic Processes

Answers to Unit 2 Preparation Questions (Assessing Student Readiness)

(Student textbook pages 108–111)

1. d
2. c
3. Intermolecular forces (London dispersion specifically)
4. a. reactants
b. products
5. Formation of gas, colour change, precipitate formation, release or absorption of energy
6. b
7. substrate
8. The structure is made of intramolecular interactions causing folding, twisting due to the *R* groups. Its function is to loosely bond to the substrate decreasing the energy in bonds and making them easier to break.
9. Changing the temperature or pH.
10. a. amino acids
b. simple sugars (monosaccharides)
c. nucleotides
11. neutral
12. Enzymes decrease the activation energy needed for a reaction to progress. The energy of the reactants must be increased before the bonds break and the energy of the products decreases. Energy must be released during this reaction.
13. The cell membrane is made of phospholipids and proteins. The phospholipids have a hydrophilic (polar) head and hydrophobic (nonpolar) tail. The head is attracted to water and the tail is repelled. When placed into solution, the tails spin away from water and a bilayer forms. It is a mosaic because it is made of discrete components (that are not bonded). It is fluid because the components are flexible and can move from place to place in the membrane. See Figure 2.12 on page 69 of the student textbook.
14. The cell wall provides structure to the cell. Plants need the cell wall to keep the plant rigid. The cell wall allows the plant cell to maintain turgor pressure. Animal cells do not need this structure due to the fact that animals make specialized cells to give them structure (e.g., bones, calcium deposits) if needed.
15. 1—microtubule
2—actin filament
3—intermediate filaments
4—lysosome
5—centrioles
6—centrosome
7—cytoplasm (or cytosol)
8—vesicle
9—Golgi apparatus
10—nuclear envelope
11—chromatin
12—nucleolus
13—nuclear pore
14—rough endoplasmic reticulum
15—smooth endoplasmic reticulum
16—ribosomes
17—peroxisome
18—mitochondrion
19—chain of ribosomes
16. The mitochondria break down high energy organic molecules to convert stored energy into usable energy in the form of ATP. They perform cellular respiration and are responsible for the complete oxidation of organic molecules to carbon dioxide.
17. Oxygen crosses the membrane by passive transport/ simple diffusion from the blood into the cell and then into the mitochondria.
18. 1—central vacuole, water storage and support for cell
2—nucleus, contains DNA which stores and replicates genetic information
3—chloroplast, photosynthesis
4—mitochondrion, cellular respiration
19. Chloroplasts act as the engines of photosynthesis. They contain chlorophyll, which absorbs light energy and are the site of the redox reactions that convert carbon dioxide and water into energy-rich carbohydrates and oxygen (as a waste product).

Mhr Answer Key

Roman Wölfel

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

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Mhr 300 Loren W. Kuzuhara,2001 *Athletic Training Clinical Workbook* Kim Miller-Isaac,Melissa Noble,2014-07-17 A one of a kind workbook for certification exam success Waiting in the training room Have downtime on the field Take this portable workbook with you wherever you go to confidently prepare for the competencies required by the BOC and meet the challenges you ll face in clinical and practice **Study Guide to Accompany Drug Therapy in Nursing** Diane S. Aschenbrenner,Samantha J. Venable,2005 The perfect companion to Drug Therapy in Nursing Second Edition this invaluable study partner delivers guidance on individual patient management from a nurse as caregiver perspective helping you build essential knowledge and develop sound practice skills Knowledge building features include Top Ten Things to Know lists key terms multiple choice questions case studies and critical thinking challenges A Just the Facts feature helps deepen your understanding of essential drugs their actions indications contraindications and cautions A Patients Please feature helps you put the needs of the patient first with facts on core patient variables *Respiratory Care Clinical Competency Lab Manual* Sandra T Hinski,2013-12-10 Respiratory Care Clinical Competency Lab Manual provides the practical skills needed to apply classroom theory to clinical practice This text has the flexibility to be used in conjunction with all other respiratory care titles as well as in other disciplines that require competencies in respiratory therapy With detailed step by step procedures supporting procedural illustrations hands on lab exercises case studies and critical thinking questions this text helps you understand and apply theoretical knowledge by demonstrating specific skills Procedural competency evaluation forms help you to assess your progress and performance of specific procedures Detailed structured lab activities provide hands on opportunities to assess psychomotor and patient communication skills in a controlled environment Content correlation to NBRC combined CRT RRT exam content outlines helps you better prepare for credentialing exams Step by step procedural competencies prepare you for the RT competency areas established by the American Association of Respiratory Care AARC and meet the national practice standards for patient care Up to date coverage of current technology equipment Clinical Practice Guidelines CPGs CPR guidelines and CDC recommendations and mass casualty disaster management equips you with the most state of the art training for respiratory care Integration of case based questions within the lab activities helps you develop and promote your critical thinking abilities UNIQUE Coverage of polysomnography addresses clinical evaluation in this expanding specialty area Over 200 images provide visual guidance on how to perform procedures UNIQUE Reality Check boxes arm you with practical knowledge on real world application of various procedures UNIQUE Tip boxes supply you with helpful pointers for the clinical arena Glossary of terms offers quick reference to terms presented in the text

New Interchange Teacher's Edition 1 Jack C. Richards,Jonathan Hull,Susan Proctor,1997-10-13 New Interchange is a multi level series for adult and young adult learners of English from the beginning to the high intermediate level The Teacher's Edition features page by page instructions directly opposite full size full color reproductions of the Student's Book pages It

also contains teaching suggestions answer keys for the Student s Book and Workbook listening scripts optional activities and photocopiable Achievement Tests with their own listening scripts and answer keys **Revise for Advanced PE for Edexcel** Tim Barry,2002-12 Covering the essential topics in the specification this student revision guide is suitable for Advanced PE for Edexcel as well as a stand alone resource It includes summaries of all the main topics that students need to know and understand It provides tips on what examiners are looking for and exam style revision questions for practice before the day of the exam *The Bottom Line Book of Everyday Solutions* ,2002 *Telephone Engineer* ,1917 *Municipal Engineering and the Sanitary Record* ,1916 **The Sanitary Record and Municipal Engineering** ,1915 *HotelBusiness* ,2000-07 *Somatic Perception* Carol S. Milner,1978 **Principles and Labs for Physical Fitness** Wener W. K. Hoeger,Sharon A. Hoeger,2005 PRINCIPLES AND LABS FOR PHYSICAL FITNESS FIFTH EDITION focuses on the fitness topics including body composition cardiorespiratory endurance and muscular strength and flexibility and also highlights important wellness topics such as behavior management nutrition and stress management With over 100 pieces of art to make this text truly engaging it is also designed to give students the motivation and techniques they need to know to apply their learning experiences and knowledge received from their fitness course Each chapter allows readers to chart and update their progress in the various components of physical fitness The emphasis is on teaching individuals how to take control of their personal health and lifestyle habits so they can make a constant and deliberate effort to stay healthy and realize their highest potentials for well being In addition to the strength of the text PRINCIPLES AND LABS FOR PHYSICAL FITNESS comes with a wide range of teaching and learning resources unlike any other to support your course Besides the exclusive offerings of the CNN Video Today series and InfoTrac College Edition or the extensive PowerPoint with over 400 slides and free WebTutor Toolbox Online teaching support we offer a new BEHAVIOR CHANGE WORKBOOK Each copy of the text also comes packaged FREE with the exciting and interactive PROFILE PLUS CD ROM Unique to any learning tutorial this CD ROM includes self paced guided assessments exercise prescriptions and logs nutrition analysis and a text specific study guide appropriate for all health students **English Mechanic and World of Science** ,1879 **Patents for Inventions. Abridgments of Specifications** Great Britain. Patent Office,1924 **The Bulletin** ,1889 **Clinical Procedures for Medical Assistants** Kathy Bonewit-West,2004 Encompassing all of the back office hands on concepts and skills that medical assistants need to know this popular in depth resource of clinical procedures covers essential topics such as taking vital signs and lab specimens processing lab specimens as well as preparing patients for examinations surgeries and other office treatments and procedures The book s current expert accessible coverage addresses all aspects of back office duties with certain transdisciplinary themes legal ethical patient education documentation woven throughout the chapters where appropriate This edition continues to feature profiles of real medical assistants who are currently practicing in the clinical area sharing their most memorable or influential on the job experiences Instructor resources are available please contact your Elsevier

sales representative for details Expert reputation of both the text and author Kathy Bonewit West reassures readers that all information is accurate and follows the national curriculum guidelines Medical assistant profiles provide unique and memorable biographical profiles of real life MAs sharing their fears likes hopes and aspirations designed to help readers connect with their future career goals in a concrete way End of chapter procedures with steps rationales and charting examples clearly show how a particular procedure would be documented in the medical record Patient Teaching boxes present patient education in the context of the medical assistant s role making it more immediate and relevant Terminology Review boxes identify key terms for a valuable terminology overview in each chapter Certification Review boxes provide a bulleted summary review of important points to know after each chapter that may be covered in the medical assisting certification exam Medical Practice and the Law boxes describe legal issues that are important for medical assistants to understand On the Web boxes list websites for further student study and research relevant to each chapter Reorganized table of contents presents a more logical progression of material beginning with the medical record and followed by medical asepsis and sterilization and disinfection so readers have the foundation of basic clinical knowledge before delving into more complicated procedural concepts Apply Your Knowledge sections offer case based multiple choice questions at the end of each chapter to help strengthen critical thinking and application skills A table correlating Cognitive Learning Objectives with Performance Skills Learning Objectives clearly identifies the cognitive basis for each clinical skill The Administration of Medication chapter has been extensively revised to include the most current and commonly used drugs exposing readers to medication names most likely encountered in the medical office What Would You Do What Would You Not Do case study boxes and responses profile real world cases throughout the chapter English to Spanish medical terms appendix covers glossary terms used by medical assistants when interacting with Spanish speaking patients

English Mechanic and Mirror of Science ,1879 Appendix to the Journals of the House of Representatives of New Zealand ,1881

Industrial & Mining Standard ,1924

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