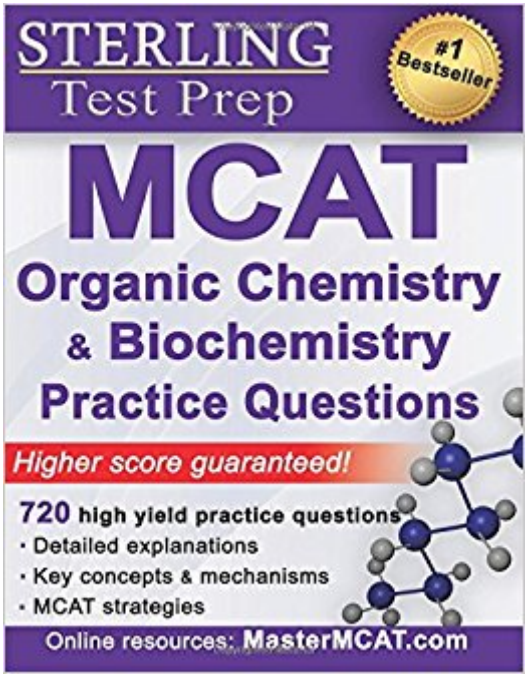
Ebook Directory
the best source of ebook

The book was found

Sterling Test Prep MCAT Organic Chemistry & Biochemistry Practice Questions: High Yield MCAT Questions



PDF
Adobe
DOWNLOAD EBOOK

Synopsis

MCAT Organic Chemistry and Biochemistry best seller!Our preparation materials are guaranteed to increase your MCAT score.MCATÃ Â Organic Chemistry and Biochemistry practice questions with detailed explanations covering all topics tested on the "Chemical & Physical Foundations" section of the MCAT: Ã Â Ã Â Ã Â Ã Â Molecular structure and absorption spectraÃ Â Ã Â Ã Â Covalent bondÃ Â Ã Â Ã Â Separations and purificationsÃ Â Ã Â Ã Â Aldehydes and ketonesÃ Â Ã Â Ã Â AlcoholsÃ Â Ã Â Ã Â Carboxylic acidsÃ Â Ã Â Ã Â Acid derivatives (anhydrides, amides,esters)Ã Â Ã Â Ã Â PhenolsÃ Â Ã Â Ã Â Polycyclic and heterocyclic aromaticcompoundsÃ Â Ã Â Ã Â Amino acids, peptides, proteinsÃ Â Ã Â Ã Â CarbohydratesÃ Â Ã Â Ã Â LipidsÃ Â Ã Â mcat organic chemistry review, mcat biochemistry, mcat biochemistry practice, mcat biochem, mcat biochemistry review

Book Information

Paperback: 444 pages

Publisher: CreateSpace Independent Publishing Platform (November 1, 2015)

Language: English

ISBN-10: 1518871577

ISBN-13: 978-1518871573

Product Dimensions: 8.5 x 1 x 11 inches

Shipping Weight: 2.4 pounds (View shipping rates and policies)

Average Customer Review: 4.9 out of 5 stars 19 customer reviews

Best Sellers Rank: #598,523 in Books (See Top 100 in Books) #100 inÃ Â Books > Education & Teaching > Higher & Continuing Education > Test Preparation > Graduate School > MCAT #4315 inÃ Â Books > Textbooks > Test Prep & Study Guides #10420 inÃ Â Books > Education & Teaching > Test Preparation

Customer Reviews

Organic chemistry and biochemistry are challenging disciplines and are heavily tested on the MCAT as part of "Chemical and Physical Foundations of Biological Systems" section and (to a much smaller percentage) "Biological and Biochemical Foundations of Living Systems" section of the MCAT 2017. This book providesÃ Â 720Ã Â practice questions that test your knowledge of all organic chemistry and biochemistry topics on the MCAT 2017.Ã Â Ã Â The explanations to these questions provide detailed solutions and cover a broad spectrum of concepts that you must be well-versed in to be able to answer related questions on the test and get a high score. By reading

these explanations carefully and understanding how they apply to solving the question, you will learn important concepts and the relationships between them. This will prepare you for the test and you will significantly increase your score.Ã Â Ã Â All the content of this MCAT organic chem and MCAT biochemistry 2016 book is prepared by our writers and editors to ensure strict adherence to the topics and skills outlined by the AAMC for the redesigned MCAT.Ã Â These editors possess extensive credentials, were educated in top colleges and universities and have been admitted to medical school with stellar MCAT scores. They are experts on teaching, preparing students for the MCAT and have coached thousands of premeds on admission strategies.Ã Â Used books may have outdated content.Ã Â We make content updatesÃ Â regularlyÃ Â based on customers' comments, editorial input and latest test changes. The most current version is only available directly from (sold & shipped by), Barnes & Noble and Sterling Test Prep web store.

AAMC Foundational Concept 1:Ã Â Biomolecules have unique properties that determine how they contribute to the structure and function of cells, and how they participate in the processes necessary to maintain life.Ã Â Amino acids:Ã Â Ã Â Description (absolute configuration at the alpha position; amino acids as dipolarions; classifications)Ã Â Ã Â Reactions (sulfur linkage for cysteine and cysteine; peptide linkage: polypeptides and proteins; hydrolysis)Ã Â Protein structure:Ã Â Ã Â Structure (1Ã Â and 2Ã Â structure of proteins; 3Ã Â structure of proteins, role of proline, cystine, hydrophobic bonding; 4Ã Â structure of proteins)Ã Â Ã Â Conformational stability (denaturing and folding, hydrophobic interactions; solvation layer)Ã Â Ã Â Separation techniques (isoelectric point; electrophoresis)Ã Â Carbohydrates:Ã Â Ã Â Description (nomenclature and classification, common names; absolute configuration; cyclic structure and conformations of hexoses; epimers and anomers)Ã Â Ã Â Hydrolysis of the glycoside linkageÃ Â Ã Â MonosaccharidesÃ Â Ã Â DisaccharidesÃ Â Ã Â PolysaccharidesÃ Â AAMC Foundational Concept 3: Complex systems of tissues and organs sense the internal and external environments of multicellular organisms, and through integrated functioning, maintain a stable internal environment within an ever-changing external environment.Ã Â Lipids:Ã Â Ã Â Description; structure (steroids; terpenes and terpenoids; lipid components of plasma membrane)Ã Â AAMC Foundational Concept 4: Complex living organisms transport materials, sense their environment, process signals, and respond to changes using processes that can be understood in terms of physical principles.Ã Â Molecular structure and absorption spectra:Ã Â Ã Â Infrared region (molecular structure and absorption spectra; intramolecular vibrations and rotations; recognizing common characteristic group absorptions, fingerprint region)Ã Â Ã Â Visible region (absorption in visible

region gives complementary color; effect of structural changes on absorption)Ã Â Ã Â Ultraviolet region (pi-electron and non-bonding electron transitions; conjugated systems)Ã Â Ã Â NMR spectroscopy (protons in a magnetic field; equivalent protons; spin-spin splitting)Ã Â AAMC Foundational Concept 5: The principles that govern chemical interactions and reactions form the basis for a broader understanding of the molecular dynamics of living systems.Ã Â Covalent bond:Ã Â Ã Â Stereochemistry of covalently bonded molecules (structural isomers; stereoisomers; conformational isomers; polarization of light, specificrotation; absolute and relative configuration: R and S forms, E and Z forms)Ã Â Separations and purifications:Ã Â Ã Â Extraction: distribution of solute between two immiscible solventsÃ Â Ã Â DistillationÃ Â Ã Â Chromatography: basic principles involved in separation process (column chromatography; paper chromatography; thin-layer chromatography)Ã Â Ã Â Separation and purification of peptides and proteins (electrophoresis; quantitative analysis; chromatography)Ã Â Ã Â Racemic mixtures, separation of enantiomersÃ Â Amino acids, peptides, proteins:Ã Â Ã Â Amino acids: description (absolute configuration at the alpha position; dipolar ions; classification; synthesis of alpha-amino acids)Ã Â Ã Â Peptides and proteins reactions (sulfur linkage for cysteine and cysteine; polypeptides and proteins; hydrolysis)Ã Â Ã Â General principles (primary structure of proteins; secondary structure of proteins; tertiary structure of proteins; isoelectric point)Ã Â Lipids (description, types):Ã Â Ã Â Ã Â Storage (triacyl glycerols; free fatty acids, saponification)Ã Â Ã Â Ã Â Structure (phospholipids and phosphatides; sphingolipids; waxes)Ã Â Ã Â Ã Â Signals/cofactors (fat-soluble vitamins; steroids; prostaglandins)Ã Â Carbohydrates:Ã Â Ã Â Description (nomenclature and classification, common names; absolute configuration; cyclic structure and conformations of hexoses; epimers and anomers)Ã Â Ã Â Hydrolysis of the glycoside linkageÃ Â Ã Â Keto-enol tautomerism of monosaccharidesÃ Â Ã Â DisaccharidesÃ Â Ã Â PolysaccharidesÃ Â Aldehydes and ketones:Ã Â Ã Â Description (nomenclature; physical properties)Ã Â Ã Â Important reactions (nucleophilic addition reactions at C=O bond; oxidation of aldehydes; reactions at adjacent positions: enolate chemistry)Ã Â Ã Â General principles (effect of substituents on reactivity of C=O; steric hindrance; acidity of alpha-H; carbanions)Ã Â Alcohols:Ã Â Ã Â Description (nomenclature; physical properties)Ã Â Ã Â Important reactions (oxidation; substitution reactions: SN1 or SN2; protection of alcohols; preparation of mesylates and tosylates)Ã Â Carboxylic acids:Ã Â Ã Â Description (nomenclature; physical properties)Ã Â Ã Â Important reactions (carboxyl group reactions; amides and lactam, esters and lactone, anhydride formation; reduction; decarboxylation)Ã Â Ã Â Reactions at 2-position, substitutionÃ Â Acid derivatives (anhydrides, amides, esters):Ã Â Ã Â Description

(nomenclature; physical properties)Ã Â Ã Â Important reactions (nucleophilic substitution; transesterification; hydrolysis of amides)Ã Â Ã Â General principles (relative reactivity of acid derivatives; steric effects; electronic effects; strain)Ã Â Phenols:Ã Â Ã Â Oxidation and reductionÃ Â Polycyclic and heterocyclic aromatic compounds:Ã Â Ã Â Biological aromatic heterocycles

Great practice questions and review for orgo. I had used a few other prep books before that were passed to me from friends and this is much better. Challenging and relevant questions. Clear and meaningful coverage of the material for the MCAT.

Great biochem and orgo practice questions. Was using a friend's book by another company and this is much better. Good questions and great, detailed explanantions. I now know more about biochema and orgo.

I used several Sterling Prep books to get ready for the April MCAT. Great practice material and more substantial than several other publisher's products I reviewed before selecting these books. Results are what I was looking for. U

I wish I used this book as a supplemnt during my orgo class. Explanations actually make sense. The practice problems are great to reveiw and integrate the concepts. Good coverage of both organic chemistry and biochemistry tested on the MCAT.

great practice questions for organic chemistry and biochemistry. My scores showed that I mastered many of the topics. I learned things that I had forgotten or never learned during classes.

My tutor from a big name prep company recommended this book for extra practice in orgo and biochemistry. Good practice questions and detailed explanations.

Great explanations to the practice questions in Organic Chemistry. I learned alot from this book. Would have been a good book to use when I took the class.

I needed practice with questions in organic chemistry and biochemistry. Book was very comprehensive and I had great improvement in my understanding from the explanation.

Download to continue reading...

Sterling Test Prep MCAT Organic Chemistry & Biochemistry Practice Questions: High Yield MCAT Questions Sterling Test Prep CLEP Chemistry Practice Questions: High Yield CLEP Chemistry Questions Sterling Test Prep SAT Chemistry Practice Questions: High Yield SAT Chemistry Questions with Detailed Explanations Sterling Test Prep GRE Physics Practice Questions: High Yield GRE Physics Questions with Detailed Explanations Sterling DAT General Chemistry Practice Questions: High Yield DAT General Chemistry Questions Study Guide: Ace Organic Chemistry I - The EASY Guide to Ace Organic Chemistry I: (Organic Chemistry Study Guide, Organic Chemistry Review, Concepts, Reaction Mechanisms and Summaries) MCAT Prep 2017: Test Prep Book & Practice Test Questions for the Medical College Admission Test Sterling Test Prep MCAT Biology & Biochemistry Review: Complete Subject Review MCAT Prep Book: MCAT Secrets Study Guide: MCAT Practice and Review for the Medical College Admission Test Sterling CLEP Biology Practice Questions: High Yield CLEP Biology Questions Sterling SAT Biology E/M Practice Questions: High Yield SAT Biology E/M Questions Sterling AP Biology Practice Questions: High Yield AP Biology Questions Sterling DAT Biology Practice Questions: High Yield DAT Biology Questions Ace Biochemistry!: The EASY Guide to Ace Biochemistry: (Biochemistry Study Guide, Biochemistry Review) Kaplan MCAT Organic Chemistry Review: Created for MCAT 2015 (Kaplan Test Prep) High-Yield Embryology (High-Yield Series) By Ronald W. Dudek: High-Yield Embryology (High-Yield Series) Fourth (4th) Edition High-yield Neuroanatomy (High-yield Series) 4th (fourth) Edition by James D. Fix, Jennifer Brueckner published by Lippincott Williams and Wilkins (2008) By James D. Fix: High-Yield Neuroanatomy (High-Yield Series) Third (3rd) Edition Sterling Test Prep MCAT Practice Tests: Chemical & Physical + Biological & Biochemical Foundations

Contact Us

DMCA

Privacy

FAQ & Help