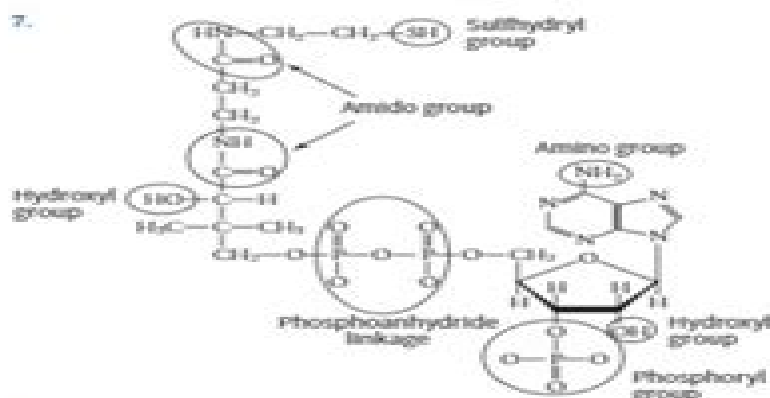
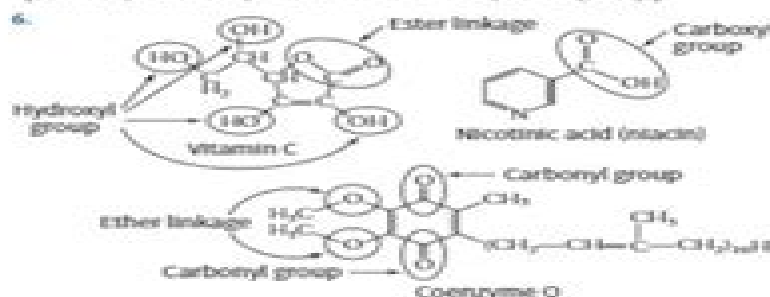


Chapter 1

1. a. carboxylic acid; b. amine; c. ester; d. alcohol.
2. a. ether; b. phosphoric acid ester; c. thiol; d. ketone.
3. a. aldehyde; b. imine; c. thioester; d. diphosphoric acid.
4. a. alcohol; b. aldehyde; c. carboxylic acid.
- 5.



[From Li, S.-Y. et al., *Eur. J. Med. Chem.* 71, 36–45 (2014).]



8. A thioester linkage is formed.

9. Amino acids, monosaccharides, nucleotides, and lipids are the four types of biological small molecules. Amino acids, monosaccharides, and nucleotides can form polymers of proteins, polysaccharides, and nucleic acids, respectively.

10. a. *N*-Acetylglucosamine is a monosaccharide. b. CMP is a nucleotide. c. Homocysteine is an amino acid. d. Cholesteryl ester is a lipid.

11. a. 11-Cyclotetradecanoate is a lipid. b. Selenocysteine is an amino acid. c. Galactose is a monosaccharide. d. *O*⁶-Methylguanosine monophosphate is a nucleotide.

12. The compound contains both a lipid and a monosaccharide. [From Maryamian, T.V. et al., *Molecules* 23, 1077 (2018).]

13. a. C and H plus some O. b. C, H, and O. c. C, H, O, and N plus small amounts of S.

14. It is a lipid (it is actually lecithin). It is mostly C and H, with relatively little O and only one N and one P. It has too little C to be a carbohydrate, too little N to be a protein, and too little P to be a nucleic acid.

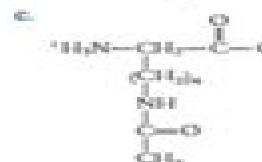
15. You should measure the nitrogen content, since this would indicate the presence of protein (neither lipids nor carbohydrates contain appreciable amounts of nitrogen).

16. You could add the compound that contains the most nitrogen, compound B, which is melamine. (Melamine is a substance that in the past was added to some pet foods and milk products from China, so that they would appear to contain more protein. Melamine is toxic to pets and children.) Compound C is an amino acid, so it would already be present in protein-containing food.

17. A diet high in protein results in a high urea concentration, since urea is the body's method of ridding itself of extra nitrogen. Nitrogen is found in proteins but is not found in significant amounts in lipids or carbohydrates. A low-protein diet provides the patient with just enough protein for tissue repair and growth. In the absence of excess protein consumption, urea production decreases, and this puts less strain on the patient's weakened kidneys.

18. Asn has an amide group and Cys has a sulfhydryl group.

19. Serine has a hydroxyl group and lysine does not.



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Table of Contents 5th Edition Lehinger Biochemistry Solution Manual 238529

1. Understanding the eBook 5th Edition Lehinger Biochemistry Solution Manual 238529
 - The Rise of Digital Reading 5th Edition Lehinger Biochemistry Solution Manual 238529
 - Advantages of eBooks Over Traditional Books
2. Identifying 5th Edition Lehinger Biochemistry Solution Manual 238529
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 5th Edition Lehinger Biochemistry Solution Manual 238529
 - User-Friendly Interface
4. Exploring eBook Recommendations from 5th Edition Lehinger Biochemistry Solution Manual 238529
 - Personalized Recommendations
 - 5th Edition Lehinger Biochemistry Solution Manual 238529 User Reviews and Ratings
 - 5th Edition Lehinger Biochemistry Solution Manual 238529 and Bestseller Lists
5. Accessing 5th Edition Lehinger Biochemistry Solution Manual 238529 Free and Paid eBooks
 - 5th Edition Lehinger Biochemistry Solution Manual 238529 Public Domain eBooks
 - 5th Edition Lehinger Biochemistry Solution Manual 238529 eBook Subscription Services
 - 5th Edition Lehinger Biochemistry Solution Manual 238529 Budget-Friendly Options

6. Navigating 5th Edition Lehinger Biochemistry Solution Manual 238529 eBook Formats
 - ePub, PDF, MOBI, and More
 - 5th Edition Lehinger Biochemistry Solution Manual 238529 Compatibility with Devices
 - 5th Edition Lehinger Biochemistry Solution Manual 238529 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 5th Edition Lehinger Biochemistry Solution Manual 238529
 - Highlighting and Note-Taking 5th Edition Lehinger Biochemistry Solution Manual 238529
 - Interactive Elements 5th Edition Lehinger Biochemistry Solution Manual 238529
8. Staying Engaged with 5th Edition Lehinger Biochemistry Solution Manual 238529
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 5th Edition Lehinger Biochemistry Solution Manual 238529
9. Balancing eBooks and Physical Books 5th Edition Lehinger Biochemistry Solution Manual 238529
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 5th Edition Lehinger Biochemistry Solution Manual 238529
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 5th Edition Lehinger Biochemistry Solution Manual 238529
 - Setting Reading Goals 5th Edition Lehinger Biochemistry Solution Manual 238529
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 5th Edition Lehinger Biochemistry Solution Manual 238529
 - Fact-Checking eBook Content of 5th Edition Lehinger Biochemistry Solution Manual 238529
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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