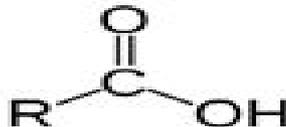


Please answer each question carefully. Remember, follow your gut! Please copy all answers on the answer sheet on the back of this exam! Otherwise, I will take off 10 points!

- The structure of DNA described by Watson and Crick included:
 - a double helix
 - the sugar-phosphate backbone aligned in the center of the helix
 - the base pairs that are stacked on the inside of the double helix
 - A double helix and base pairs that are stacked on the inside of the double helix
- What gives proteins such a dominant role in biochemistry?
 - the ability to act as a blueprint
 - their ability to spontaneously fold into complex three-dimensional structures
 - the variation in protein sizes
 - their ability to self-replicate
- Match the loss of a particular organelle with the associated disease.
 - Hypercholesterolemia - smooth endoplasmic reticulum
 - Diabetes - endosome
 - Tay-Sachs disease - lysosome
 - Muscle degeneration - mitochondria
- In a biochemistry lab course, you are asked to design an experiment to identify a strain of bacteria. Your lab partner claims that she thinks the bacterium contains a rough endoplasmic reticulum. To verify her claim, which of the following experiments would you perform? (pretend you're indulging her ludicrous claim).
 - determine whether the bacterium has an internal membrane-enclosed compartment
 - determine whether the bacterium generates CO_2 in the presence of fuel molecules
 - determine whether the bacterium can synthesize proteins
 - determine whether the bacterium can synthesize ATP in the presence of fuel molecules and O_2
- What is the H^+ concentration in a urine sample that has a pH of 6?
 - 10^{-6} M
 - 10^{-8} M
 - 10^6 M
 - 10^{-14} M
- Which of the following is considered a noncovalent bond?
 - electrostatic interactions
 - hydrogen bonds
 - van der Waals interactions
 - All of these answers
- Which functional group is shown below?



- Amine
 - Thiol
 - Carboxylic acid
 - None of these answers
- What is the $[\text{A}^-]/[\text{HA}]$ ratio when the weak acid is in a solution one pH unit above its pK_a ?

Biochemistry Short Answer Questions

Michael Hoelscher



Biochemistry Short Answer Questions:

Biochemistry John T. Tansey, 2020-07-15 Biochemistry An Integrative Approach with Expanded Topics is addressed to premed biochemistry and life science majors taking a two semester biochemistry course This version includes all 25 chapters offering a holistic approach to learning biochemistry An integrated skill focused approach to the study of biochemistry and metabolism Biochemistry integrates subjects of interest to undergraduates majoring in premed biochemistry life science and beyond while preserving a chemical perspective Respected biochemistry educator John Tansey takes a unique approach to the subject matter emphasizing problem solving and critical thinking over rote memorization Key concepts such as metabolism are introduced and then revisited and cross referenced throughout the text to establish pattern recognition and help students commit their new knowledge to long term memory As part of WileyPLUS Biochemistry includes access to video walkthroughs of worked problems interactive elements and expanded end of chapter problems with a wide range of subject matter and difficulty Students will have access to both qualitative and quantitative worked problems and videos model the biochemical reasoning students will need to master This approach helps students learn to analyze data and make critical assessments of experiments key skills for success across scientific disciplines Introduces students in scientific majors to the basics of biochemistry and metabolism Integrates and synthesizes topics throughout the text allowing students to learn through repetition and pattern recognition Emphasizes problem solving and reasoning skills essential to life sciences including data analysis and research assessment Provides access to video walkthroughs of worked problems interactive features and additional study material through WileyPLUS This volume covers DNA RNA gene regulation synthetic proteins omics plant biochemistry and more With this text students studying a range of disciplines are empowered to develop a lasting foundation in biochemistry and metabolism that will serve them as they advance through their careers *Biochemistry*

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