

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

Albert A Gayle



Biochemistry Short Answer Questions:

Biochemistry Short Answer Questions Book Review: Unveiling the Power of Words

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