

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  $\text{CO}_2$  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  $\text{O}_2$
- What is the  $\text{H}^+$  concentration in a urine sample that has a pH of 6?
  - $10^{-6} \text{ M}$
  - $10^{-8} \text{ M}$
  - $10^6 \text{ M}$
  - $10^{-14} \text{ M}$
- 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  $\text{pK}_a$ ?

# Biochemistry Short Answer Questions

**John T. Tansey**



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