

## BIOCHEMISTRY TEST – PRACTICE QUESTIONS (Answers on last page)

- The atomic # for Fe (iron) is 26. How many protons in  $\text{Fe}^{2+}$ ?  
(A) 22 (B) 24 (C) 26 (D) 28 (E) 30
- Two molecules that are **isomers**:  
(A) must contain the same functional groups  
(B) often differ in the number of unsaturated bonds they possess  
(C) have the same molecular formulas  
(D) often have different masses
- The maximum number of **electrons** which may occupy any given energy level in an atom is:  
(A) the Group number (D)  $2n^2$   
(B) the valence of that atom (E) the octet rule  
(C)  $n^2$
- In which of the following kinds of organic compounds does a **carbon** atom bond ONLY to hydrogen and other **carbon** atoms?  
(A) carbohydrates (D) nucleic acids  
(B) fatty acids (E) hydrocarbons  
(C) lipids
- Glycogen is best defined as a:  
(A) storage form of lipids (D) polymer of glucose  
(B) storage form of glycerol (E) storage form of proteins  
(C) polymer of lactose
- Most **biologically important atoms** attempt to possess \_\_\_\_\_ electrons in their outermost energy level.  
(A)  $n^2$  (B) 2 (C) 10 (D) 4 (E) 8
- The number of **valence** electrons in an atom with atomic number 13 is:  
(A) 1 (B) 3 (C) 5 (D) 8 (E) 13
- Which molecule does **NOT** have a **polar covalent** bond?  
(A)  $\text{H}_2\text{O}$  (B)  $\text{H}-\text{Br}$  (C)  $\text{H}-\text{H}$  (D)  $\text{H}-\text{F}$  (E)  $\text{H}-\text{I}$
- What chemical family does  $\text{H}_2\text{C}=\text{C}=\text{CH}_2$  belong to?  
(A) alkane (D) ether  
(B) alkene (E) ester  
(C) alkyne
- In the **induced-fit model** of enzyme action, a \_\_\_\_\_ must bind to the enzyme's \_\_\_\_\_ for the enzyme to perform its function.  
(A) catalyst; activation energy (D) product; catalytic site  
(B) product; active site (E) water molecule; allosteric site  
(C) substrate; active site
- Which one of the following applies to a **basic solution**?  
(A) high  $\text{OH}^-$  (D)  $\text{H}^+ = \text{OH}^-$   
(B) low  $\text{OH}^-$  (E) both B and C are correct  
(C) high  $\text{H}^+$
- Which one of the four classes of biologically important molecules does **CELLULOSE** belong to?  
(A) carbohydrates (C) proteins  
(B) nucleic acids (D) lipids
- Amino acids** are joined during a(n) \_\_\_\_\_ reaction and a(n) \_\_\_\_\_ bond/linkage is formed.  
(A) hydrolysis; peptide (C) condensation; amide  
(B) neutralization; ether (D) oxidation; ester
- With respect to proteins, the **primary structure** refers to the:  
(A) helix or pleated sheet pattern of a polypeptide  
(B) complex 3-dimensional folding pattern of a polypeptide  
(C) interaction of more than one polypeptide chain  
(D) ordered sequence of amino acids in a polypeptide

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**LP Steffe**



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