

### Biology 155 - Quiz 3

1. If you were to analyze the chemical constituents of an earthworm and an elephant which would you expect to be most different?
    - a. nucleotides
    - b. amino acids
    - c. proteins
    - d. fatty acids
    - e. sugars
  2. Which statement about lipids is NOT correct?
    - a. animals commonly synthesize fats that are liquid at room temperature
    - b. phospholipids are amphipathic
    - c. all lipids are soluble in organic solvents
    - d. some sterols are hormones
  - 3.
- Which is NOT a common function for proteins?
- a. long-term energy storage
  - b. hormones
  - c. biological catalysts
  - d. skeletal structures
4. Hydrogen bonding can be found in all EXCEPT
    - a. double stranded DNA
    - b. protein secondary structure
    - c. hydrophilic interactions
    - d. triglycerides in water
  5. If you analyzed the chemical constituents of a polymer derived from a living organism and found phosphorus, what of the following molecules could it be?
    - a. polysaccharide
    - b. polypeptide
    - c. neutral fat
    - d. nucleic acid