Molecules of Cells Ch 2

1. differentiate among starch, cellulose, and glycogen - Draw

2. demonstrate a knowledge of synthesis and hydrolysis as applied to organic polymers Draw

3. list the main functions of carbohydrates

4. distinguish among carbohydrates, lipids, proteins, and nucleic acids with respect to chemical structure

5. differentiate among monosaccharides, disaccharides, and polysaccharides Draw

6. recognize the empirical formula of a carbohydrate

7 compare and contrast saturated and unsaturated fats in terms of molecular structure

8 describe the location and explain the importance of the following in the human body: neutral fats, steroids, phospholipids

9 list the major functions of proteins

10 draw a generalized amino acid and identify the amine, acid (carboxyl), and R-groups

11 differentiate among the primary, secondary, tertiary, and quaternary structure of proteins DRAW

12 relate the general structure of the ATP molecule to its role as the "energy currency" of cells