

# Macromolecules Assignment – Student Edition

**I. Identify the specific molecule from each description.**

1. \_\_\_\_\_ are used as an energy storage molecule in animals.
2. \_\_\_\_\_ are used as an energy storage molecule in plants.
3. \_\_\_\_\_ speeds up chemical reactions by lowering activation energy.
4. \_\_\_\_\_ regulates how the organism looks and acts.
5. \_\_\_\_\_ are the monomers of protein.

**II. Classify each of the following compounds as a carbohydrate, protein, nucleic acid or lipid.**

1. Starch: \_\_\_\_\_
2. Insulin: \_\_\_\_\_
3. Steroids: \_\_\_\_\_
4. Amylase: \_\_\_\_\_
5. Unsaturated fatty acid: \_\_\_\_\_
6. Messenger RNA: \_\_\_\_\_
7. Ribose: \_\_\_\_\_

**III. Describe the similarities and differences between the polysaccharides, starch, glycogen and cellulose.**

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**IV. List three functions of lipids in the cell.**

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**V. Define the terms polymer and monomer and describe how polymers are formed from monomers.**

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