Unit 1 Test: BIOCHEMISTRY

1. What are DNA and RNA composed of?
2. What type of reaction takes monomers and joins them together to make polymers?
3. What is the function of Lipids in the body?
4. What is the function of Carbohydrates in the body?
5. What is the function of Proteins in the body?
6. What is the function of Nucleic Acids in the body?
7. What happens when starches are broken down within plants to give them energy?
8. Please look up and explain the structure of a plant cell wall.
9. What is the one element that is common in all biomolecules?
10. Recognize drawings of each of the four organic molecules.
11. What is another word for subunits that we use to describe a single subunit? Please list all that you can think of.

(example: a single sugar)

1. What are the subunits of lipids?
2. What are the subunits of Carbohydrates?
3. What are the subunits of proteins?
4. What are the subunits of nucleic acids?
5. What are some precautions you should take in lab when heating glassware on a hotplate?
6. What did the Miller-Urey experiment show?
7. What is important about the fact that all life on earth is composed of and uses the same 4 biomolecules?
8. If you were going to be running a race, and the race was very short and you needed energy, which organic molecule would you want to give you the help you need.
9. If you are trying to build muscle, and you are working out in order to do so, which biomolecule should you be eating in order to help your body to build muscle and recover?
10. Please give your best explanation of the difference in, and the relationship between, monomers and polymers.
11. Please draw an example of a monomer versus a polymer.