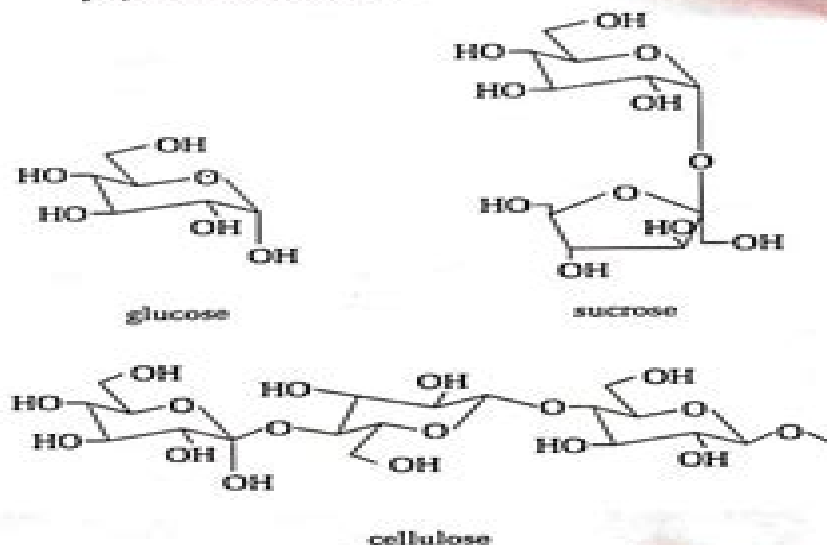


9. This is an addition reaction because hydrogen is being added to a double bond. It is also reduction because more carbon-hydrogen bonds are formed.
10. (a) Markovnikov's rule states that the halide atom or OH group in an addition reaction is usually added to the more substituted carbon atom. It applies to the following situation because both reactants are asymmetrical.
- (b)
- $$\text{CH}_3-\text{CH}_2-\text{CH}_2-\text{Br} + \text{CH}_3-\overset{\text{Br}}{\underset{|}{\text{CH}}}-\text{CH}_3$$
- 1-bromopropane 2-bromopropane
- (c) 2-bromopropane
11. This is an elimination reaction because two hydrogen atoms are eliminated from the molecule to form a double bond (the C=O bond).
12. This is a reduction because the product has fewer carbon-oxygen bonds and more carbon-hydrogen bonds than the reactant.
13. (a) propene, $\text{CH}_2=\text{CH}-\text{CH}_3$
- (b) Polypropene is an addition polymer. The polymer contains a continuous chain of carbon-carbon bonds, with no ester or amide bonds. In addition, the monomer has a double bond which is lost in the polymer.
- (c) polypropylene
14. (a) A protein is a natural polymer made up of amino acids. Amino acids are the building blocks, or monomers, for proteins.
- (b) Much of the body's structure is made from proteins. Proteins are also responsible for many of the biological functions in the body. Insulin is an example of a protein that helps regulate sugar levels in the body.
15. (a) Lipids are biological molecules that are not soluble in water, but are soluble in non-polar solvents.
- (b) glycerol trioleate, cholesterol, testosterone
- (c) meat, milk, peanut butter, cheese (any food that contains fat or oil)
- (d) Lipids are important for the long-term storage of energy in the body. They make up cell membranes and act as hormones (e.g., testosterone). Lipids also make up some of the fat-soluble vitamins, such as vitamins A, D, and E.
16. (a) A monosaccharide is a simple sugar made of one saccharide unit. A disaccharide contains two saccharide units. A polysaccharide is a polymer unit that contains many saccharide units.

- (b) monosaccharide—glucose; disaccharide—sucrose; polysaccharide—cellulose

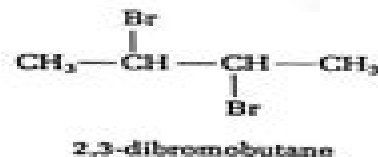


- (c) Carbohydrates are the primary source of energy for the body.

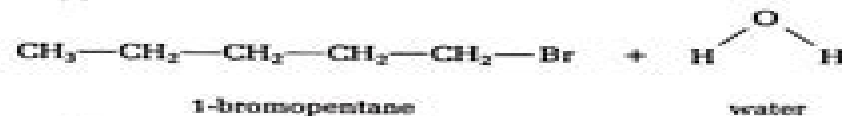
17. (a) a saccharide unit, or monosaccharide
(b) glucose

Answers to Inquiry Questions

18. (a)



- (b)



- (c)



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Michael Rajnik

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