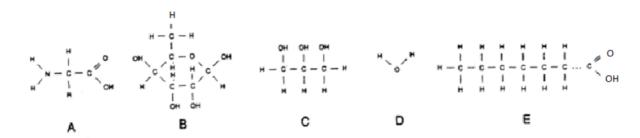
Honor Bio BioChem: Modern Biology

ORGANIC MOLECULES

The diagrams below show organic and inorganic molecules. Answer the questions that follow by writing the letter or letters of the correct diagram(s) in the space provided.

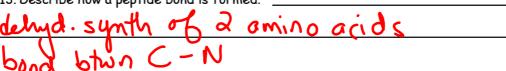


- 1. Which molecule is the building block of protein?
- 2. \bigcirc Which molecule has the formula $C_6H_{12}O_6$?
- 3. _____Which molecule represents a glycerol molecule?
- 4. A. E Which 2 molecules contain carboxyl groups?
- 5. C.E Which 2 molecules are the building blocks of a lipid?
- 6. ___ Which molecule is inorganic?
- 7. ______ Maltose is produced when two of which type of molecule are bonded?
- 8. ____ Which molecule functions as a solvent in the cell?
- 9. A Which molecule has 20 different forms in the cell?

Use the molecule below to answer the questions that follow.



- 11. Circle the two R groups and label them R.12. Circle the peptide bond and label it P.
- 13. Describe how a peptide bond is formed.



3

Honor Bio BioChem: Modern Biology

CHEMISTRY OF LIVING ORGANISMS
1. Carbohydrates, lipids and proteins are all classified as of gani
compounds.
2. Carbohydrates contain
elements.
3. Two monosaccharides may be joined together to form a disacch.
and a molecule of 120 by a process known as
<u>delyd. symthesis</u>
4. Two examples of monosaccharides are <u>a u cos</u> , and
frictose.
5. Two examples of disaccharides include Sucyose and
actose
6. Most carbohydrates end in the letters
7. A major difference between carbohydrates and lipids is in the ration of
8. The monomers of lipids include 9400 and
tatty auds
9. Three fath acids and a molecule of Can be put
together by dehydration synthesis to make a molecule of
triglyceride + 31120
10. One important function of lipids is that they are part of a cell structure know as the
<u>(cl) membrane</u>
11. In addition to coptaining carbon, hydrogen and oxygen, proteins also always contain the
element
12. The building blocks of proteins are amino acids
13. Two amino acids are joined by a portion bond.
14. Many amino acids joined together to form a paly pept de.
15. A polypeptide can be broken down by the process known as
Maraiysis
16 are the organic catalyst of living systems.
17. These organic catalysts can the activation energy
needed for a reaction to occur, which in turn makes the reaction go