

Name: \_\_\_\_\_

Date: \_\_\_\_\_

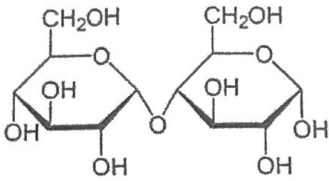
### Biochemistry recognition of key features

Look at the following images or descriptions and determine which biomolecule each is associated with. Next to each of the diagrams explain

1. What are the types of 4 main organic molecules?

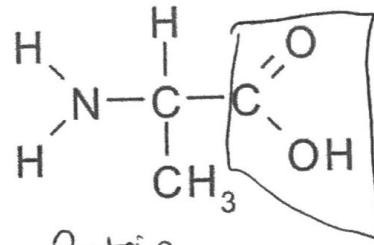
Carbohydrates, Lipids, Proteins, Nucleic Acids

Part I. Next to each image tell which biomolecule it is representing or a part of, then explain why you know.

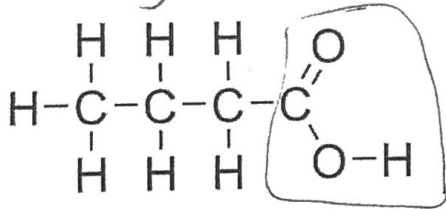


Carbohydrate  
(disaccharide)

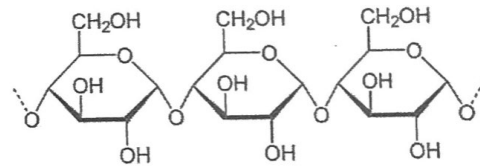
why: Ring



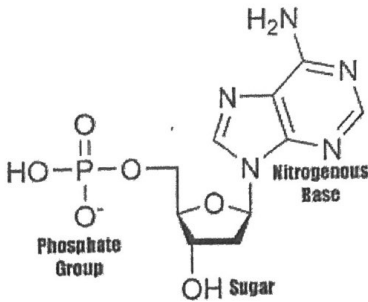
Protein  
why: has Nitrogen + Carboxyl group



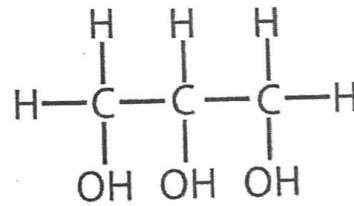
Lipid  
why: fatty acid carboxyl group  
C, H, O



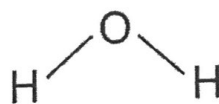
Carbohydrates  
why: Ring structure



Nucleic Acids  
why: phosphate, sugar base

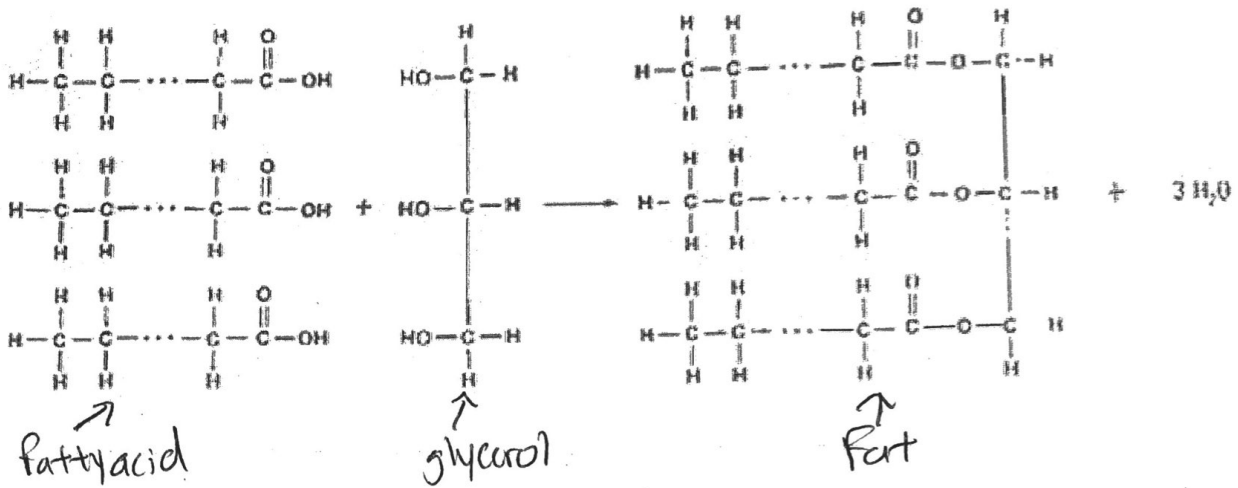


Lipid  
why: glycerol, C, H, O

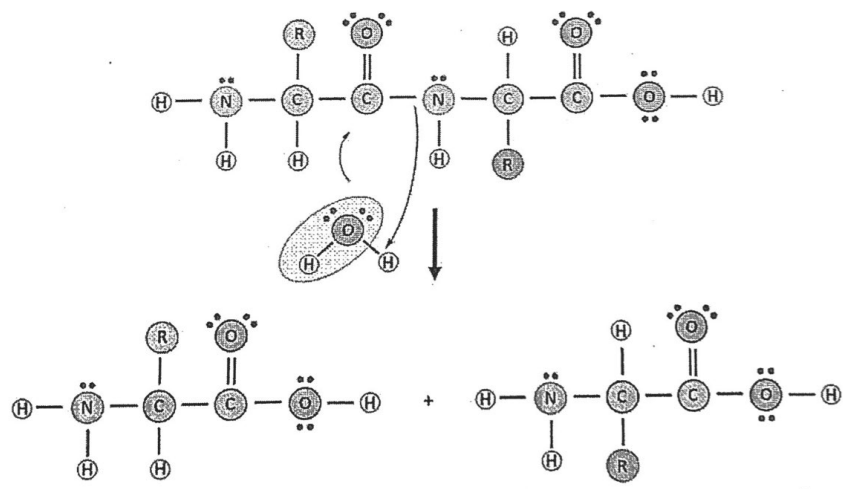


Inorganic  
H<sub>2</sub>O  
NO C-H bonds

Part II. Answer the questions about each image.



1. Label each of the molecules above.
2. What chemical process is shown in this diagram? *dehydration synthesis*
3. State one purpose or use in organisms for this particular biomolecule. *Structure in cell membrane*



1. What biomolecule is shown in the diagram above? *protein amino acids*
2. What chemical process is shown in this diagram? *hydrolysis*
3. State one purpose or use in organisms for this particular biomolecule  
*enzymes*      *Structure + function of muscle*