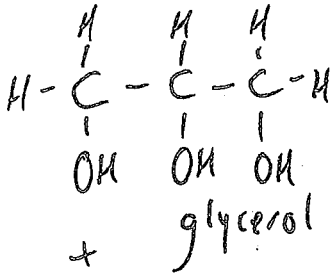
DEHYDRATION SYNTHESIS
- monomers are combined into polymers
- H_2O is a product

HYDROLYSIS
- polymers are broken down
- H_2O is a reactant

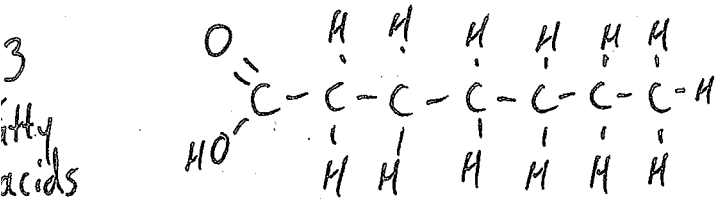
LIPIDS



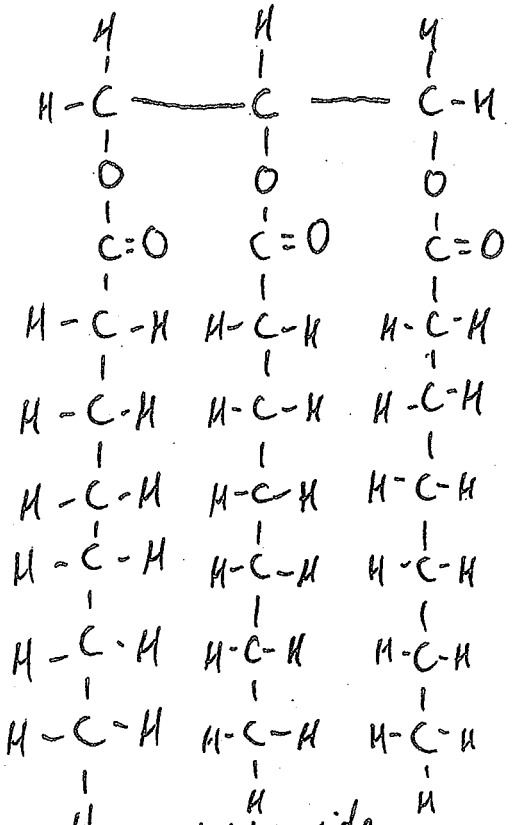
+ glycerol

Dehydration synthesis →

← HYDROLYSIS



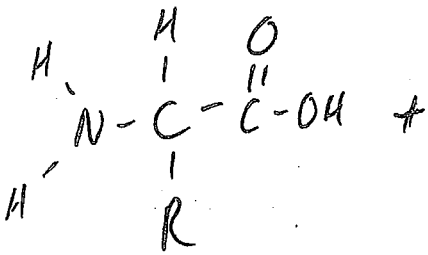
3 fatty acids



triglyceride

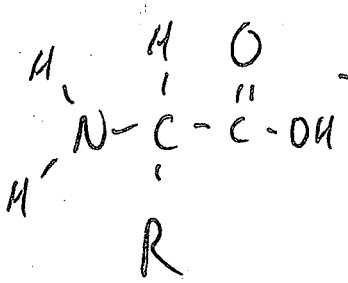
+ $3H_2O$

PROTEINS



AMINO ACID

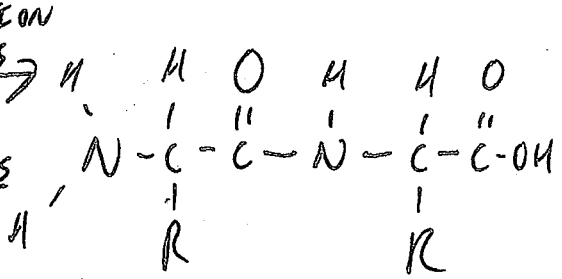
+



AMINO ACID

DEHYDRATION SYNTHESIS →

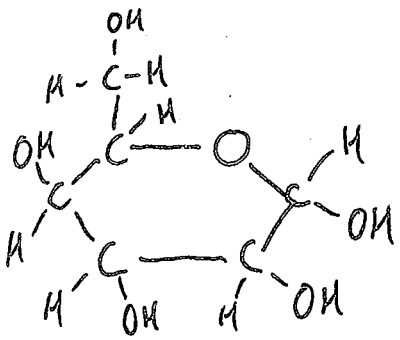
← HYDROLYSIS



DIPEPTIDE

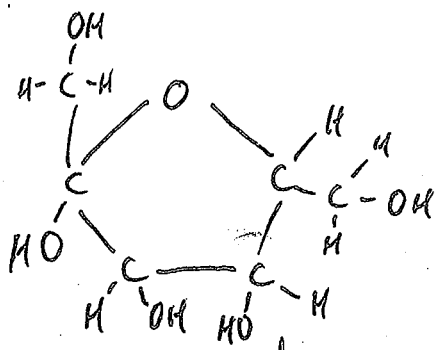
+ H_2O

CARBOHYDRATES



Monosaccharide

+

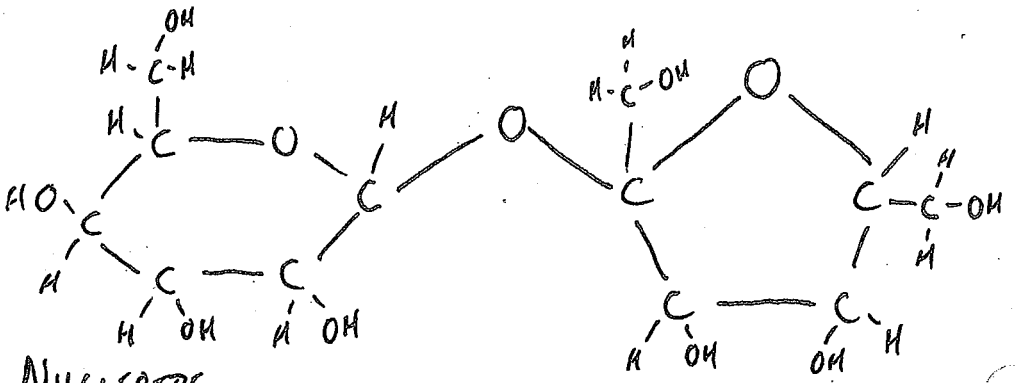


Monosaccharide

DEHYDRATION SYNTHESIS →

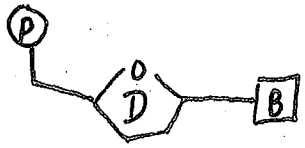
← HYDROLYSIS

H_2O +



DNA STRUCTURE

NUCLEOTDE



P = PHOSPHATE
D = DEOXYRIBOSE SUGAR
B = NITROGENOUS BASE (A, T, G, C)