# BAE 204 Midterm

gradients.

a fatty acid

any organic molecule

electrons stored on it

in an organic molecule Count each molecule ig

# Cheatography

# by Shelbeans (shelbeans) via cheatography.com/177819/cs/37606/

Cell membrane and the polymers involved

phospholipids (lipids) are important for cell membrane structure and function. They

Glucose, Ribose, Amino Acid, Glycerol, and

Caclulate the number of electrons stored on

In a lewis dot structure, the atom with the

highest electronegativity gets all the

Calculate the number of electrons needed

allow compartmentalization in cells, regulate exchanges, and allow formation of

## The 5 Requirements for Life

Water, Nutrients (CHONSP), Energy, Electron acceptors, and suitable temperatures

# Major Co-Enzymes

Acetyl- CoA, NAD, FAD, and NADP

### Coenzyme

An organic molecule that binds to the active sites of certain enzymes

## Catabolism

(Oxidized) The breaking of big molecules to make enegry

### Anabolism

(Reduced)the building of small molecules to big molecules

The 4 molec	ular families			
	Carboh- ydrates	Proteins	Nucleic Acids	Lipids
Monomers	Glucose	Amino Acids	Nucleo- tides	Fatty acid, Backbone, and polar head
Types of bonds	Glycosidic bond	peptide bond	phosph- odiester	ester
polymers	Sucrose, Cellulose	Keritine, Enzymes	DNA, RNA	Trigli- cerides
Functions	Store erergy and structure	Reaction catalysis	Storage and gene expression	Store energy and stucture
Structure	Monosa- ccharide, disacc- haride and polysa- ccharide	Primary, secondary, tertiary, and quaternary	DNA and RNA	N/A



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