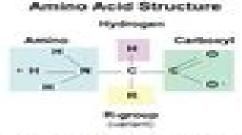
#### Study Guide: Biochemistry exam 1

- Linetteen 2:
  - Define or describe the "Central Dagma" in relation to the storage & retrieval of genetic information, the creation of proteins and the expression of traits:
    - "Central Dogma" explains the storage, retrieval, & expression of genetic information.
    - Replication: displication of DNA to make an identical copy.
    - Transcription: reading of a gene & its transcription into RNA.
    - Translation: translation of RNA sequence into the corresponding sequence of amino acids to form a protein.
    - "Information processing": Information flow from DNA to protein structure
      - DNA undergoes replication → transcribed into RNA → RNA translated into a protein → proteins develop into traits.
  - Illustrate and/or describe the general structural, physical and/or chemical characteristics of amino acids.
    - There are 29 standard amino acids.
    - Each amino acid has an amino aroup, and a corboxyl aroup joined at the alpha carbon.
    - The 'R' group is the unique feature for each amino acid.



- There's an O- on the corbosy's group by's the H+ goes to amino group, making NW+ at a certain pW.
- ◆ There are 4 main groups of omino acids:
  - Neutral non-polar; no chorpe, hydrophobic;
  - Neutral polars no charge, hydrophilic
  - Acidics extra carbonyl in R group, can be charged
  - Basic: extra amino in R group, can be + charged.

Charges occur in R gresson.

- Amphoteric: when an amino acid can act as an acid or base (depending on the pH).
- Amino acids are "switterions" meaning they can carry both a + and charge on the same molecule.
- The alpha corbon is "asymmetric" if all 4 attached groups are different.
- Describe and/or illustrate the titration of an amino ocid, including the pi's or pKo's of ionizable arrays.
  - Begin titration by adding a base, and watch the pH change.
  - You can increase the pill by adding a base, thus giving CDOII the time to give up its protos.
  - pilla reflects the dissociation of an acid.
  - pl is a point where 100% of the molocule has a 0 charge.

# **Essential Biochemistry Study Guide**

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 ${\bf Essential\,\,Biochemistry\,\,Study\,\,Guide:}$ 

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In a world inundated with monitors and the cacophony of quick conversation, the profound power and emotional resonance of verbal artistry frequently disappear in to obscurity, eclipsed by the continuous barrage of noise and distractions. Yet, located within the lyrical pages of **Essential Biochemistry Study Guide**, a interesting function of fictional brilliance that impulses with raw feelings, lies an unforgettable trip waiting to be embarked upon. Composed by a virtuoso wordsmith, this magical opus instructions readers on a mental odyssey, gently revealing the latent possible and profound impact embedded within the intricate internet of language. Within the heart-wrenching expanse of the evocative analysis, we will embark upon an introspective exploration of the book is central subjects, dissect their interesting writing design, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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