

March 27th, 2003

-organic-
-1-

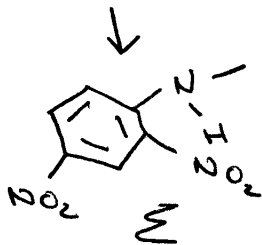
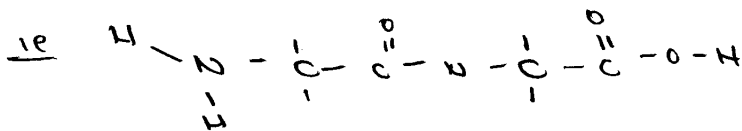
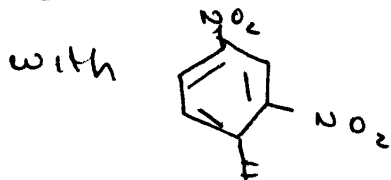
Peptide (Poly) & Protein Structure

1° - sequence of amino acids.

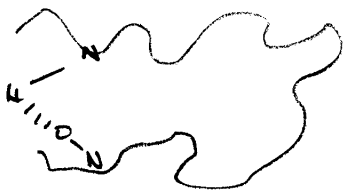
2° - short range within a single chain.

Det'n of 1° structure via sequential hydrolysis of C-terminal amino acids with enzyme "carboxy peptidase".

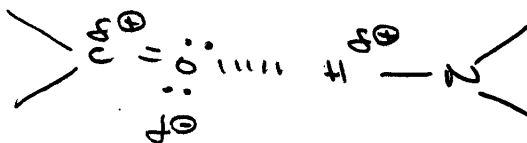
Also protect N terminus



3° structure ° due to hydrogen bonding between remote points of a single chain



random coil



4° structure : inter chain interactions (between chains)

"Denaturing" proteins : irreversible loss of activity

Breaks 2°, 3°, ; 4° structure

caused by

1. Heat
2. pH
3. Detergent (salts)
4. Organic solvents.

long chain
organic
salt ←

