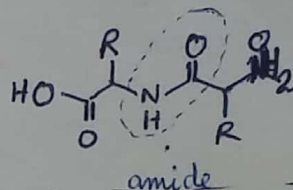
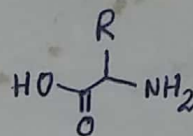


Protein: macromolecules of amino acids held by amide bonds.

- primary structure - Sequence of AA in a peptide
- Secondary structure  $\rightarrow$   $\alpha$ -helix  
 $\rightarrow$   $\beta$ -sheet
- tertiary structure
- Quaternary structure

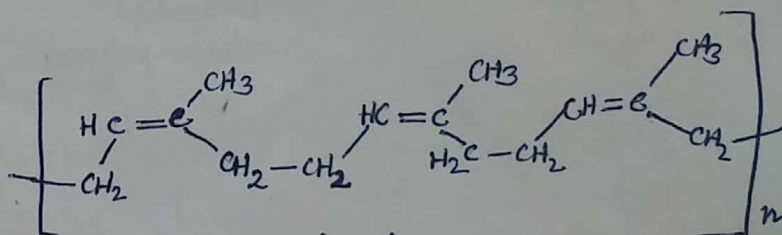
Amino acids  $\rightarrow$  Essential  
 $\rightarrow$  non-essential

Amino acid ( $\alpha$ -amino acid)



Rubber

cis-polyisoprene



cis-polyisoprene

Synthetic rubber: