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Course Name: BIOMOLECULES

C- terminal End group analysis of Amino acids & Peptides

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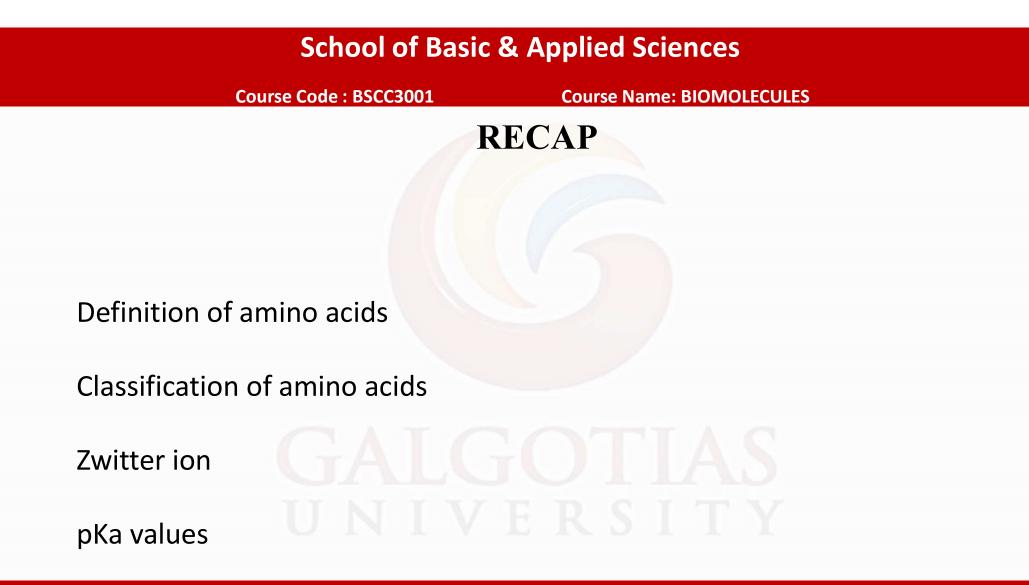
Prerequisites

Knowledge of concepts of organic chemistry

Properties of peptide bond

Enzymatic activity

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Learning Outcomes

End term analysis in amino acids

Determination of C-terminal



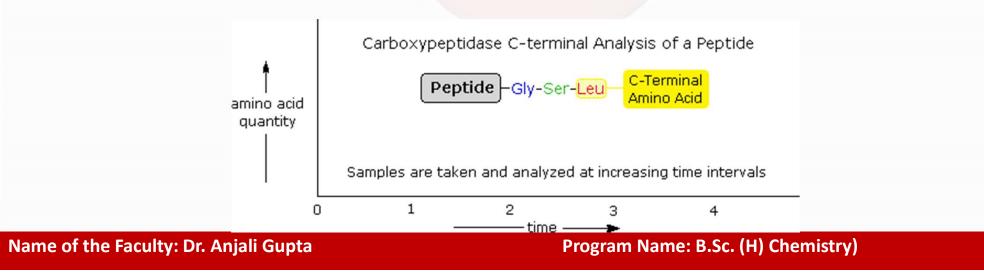
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Addition of Carboxypeptidases

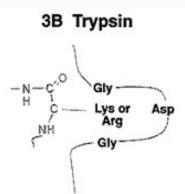
Enzymes which selectively cleave amino acids from the C-terminal. A peptide having a C-terminal sequence: ~Gly-Ser-Leu is subjected to carboxypeptidase cleavage



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Addition of Trypsin



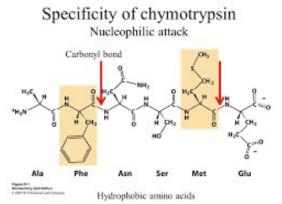
Enzymatic cleavage of Carboxyl Side of Basic Amino Acids e.g. Lys & Arg

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Addition of Chymotrypsin



Enzymatic cleavage of Carboxyl Side of Aryl Amino Acids e.g. Phe, Tyr & Trp

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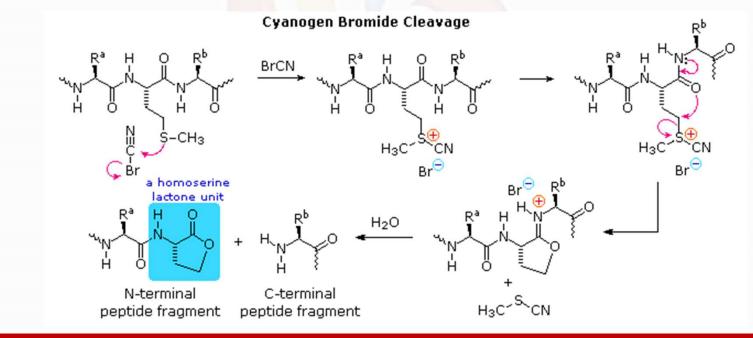
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Addition of Cyanogen Bromide

Cleavage at Carboxyl Side of Methionine



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References

- 1. https://www2.chemistry.msu.edu/faculty/reusch/VirtTxtJml/protein2.htm
- 2. https://en.wikipedia.org/wiki/Trypsin
- 3. https://en.wikipedia.org/wiki/ChymoTrypsin/.



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THANKYOU

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