

BIOCHEMISTRY (BS-ADP 6th Semester)

Module Code:	Chem-336
Module title:	Bio Chemistry Lab
Name of Scheme:	BS-ADP 6th Semester
Department:	School of Chemistry
Faculty:	Science
Module Type:	Optional
Module Rating:	1 credit

OBJECTIVES:

This study will help students in understanding of practical grounds of different estimation tests of amino acids and proteins. It will also help in hydrolysis of proteins by various methods. Students will also be able to estimate different vitamins in food by chemical methods.

SYLLABUS OUTLINE:

- Qualitative tests and Quantitative tests of amino acids and proteins.
- Determination of isoelectric point.
- Isolation and solubilization of proteins from plant and animal origin.
- Hydrolysis and estimation of proteins by Kjeldahl and Lowry method.
- Estimation of Vitamin A, B1, B2, C and D in food materials by chemical methods and HPLC.
- Separation of different proteins in serum by Polyacrylamide gel electrophoresis (PAGE).

RECOMMENDED BOOKS:

1. Practical clinical Biochemistry by Varley. Pub: CBSpublisher
2. An Introduction to Practical Biochemistry By D. T. Plummer 3rd ed. (1987) Pub: Mc GrawHill
3. Varleys Practical Clinical Biochemistry 6th Edition (English, Hardcover, Alan H. Gowenlock)