

**SARDAR PATEL UNIVERSITY**  
**Programme: B.Sc**  
**Semester: IV**  
**Syllabus with effect from: November - 2012**

<b>Paper Code: US04CBCH03</b>	<b>Total Credit: 3</b>
<b>Title of Paper: Practical</b>	

Unit	Description in detail	Weightage (%)
<b>I</b>	<b>Qualitative analysis of proteins &amp; amino acid.</b> Precipitation test of proteins Mercuric nitrate test, Lead acetate test, Sulphosalicylic test, Potassium ferricyanide test, Tannic acid test, Alcohol test, Heller's test, Ammonium sulphate test, Colour reaction for amino acid, Biuret test, Ninhydrine test, Millon's test Arginine test(Sakaguchi test), Xanthoproteic test , Hopkins-Cole test	
<b>II</b>	<b>Quantitative analysis of fat</b> Test for oil, Solubility test, Emulsion test, Absorption test, Glycerol test, Acid value of oil, Saponification test, Iodine test, Borax test, Liebermann-Burchard test for cholesterol	
<b>III</b>	<b>Colorimetric Analysis</b> Estimation of protein by Biuret method, Estimation of protein by Folin Lowry method, Estimation of DNA by DPA method, Estimation of RNA by Orcinol method, Estimation of iron by Wong's method. Separation of amino acids by circular paper chromatography	
<b>IV</b>	<b>Titrametric Analyses</b> Detection of water alkalinity, Detection of water acidity	

**Basic Text & Reference Books:**

- Laboratory manual in biochemistry by J.Jayaraman Willey eastern ltd.
- Practical Biochemistry by David Plummer
- Fundamentals of biochemistry A Practical approach by Naren Kumar Dutta Kanishka Publishers, New Delhi.

