

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

<b>Paper Code: US03CBCH03</b>	<b>Total Credit: 3</b>
<b>Title of Paper: Practical</b>	

Unit	Description in detail	Weightage (%)
<b>I</b>	<b>Qualitative Analysis:</b> Identification of biological compound Carbohydrates - Molisch.s test Protein - Biuret test Lipid - Saponification test Starch - Iodine test. <b>Qualitative Analysis for carbohydrates:</b> Molisch.s test Iodine test Benedict.s test Fehling.s test Cole.s test Barfoed.s test Seliwanoff.s test Rapid furfural test Osazone test Inversion test	
<b>II</b>	<b>Colorimetric Analysis:</b> Verification of Beer.s law (Methylene blue and KMnO <sub>4</sub> ) Estimation of creatinine by Jaff.s method Estimation of Urea by DAMO method	
<b>III</b>	<b>Titrametric Analysis :</b> Estimation of glucose by Cole.s method Estimation of urinary sugar by Benedict.s method Estimation of vitamin .C. by 2-6 Dichloroindophenol dye method	

**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

