

SARDAR PATEL UNIVERSITY

Programme : B. Sc.

Semester : I

Syllabus Effective From : June 2019

(50 Marks)

Subject code : US01CCHE23	Total credits : 2
Title of subject: Practical in Chemistry- I	

External exam will be of 04 hours and it shall includes following both exercise:

Exercise	Description In Detail	Weightage
I	Volumetric analysis of strong acid [HCl] and weak acids [oxalic acid/Acetic acid] against strong base [NaOH].	30%
II	Analysis of Inorganic substances Identification of inorganic substance [at least 12 substances] as a positive and negative radicals like : Pb^{+2} , Cu^{+2} , Fe^{+2} , Zn^{+2} , Al^{+3} , Ni^{+2} , Mn^{+2} , Ba^{+2} , Sr^{+2} , Ca^{+2} , Mg^{+2} , NH_4^+ , K^+ , Cl^- , Br^- , I^- , NO_3^- , CO_3^{-2} , S^{-2} , PO_4^{-3} , SO_4^{-2} , CrO_4^{-2} , $\text{Cr}_2\text{O}_7^{-2}$ etc. including phosphate scheme.	70%

Basic text and Reference Books :

1. Mendham, J., Denney, R. C., Barnes, J. D., Thomas, M. J. K., *Vogel's textbook of quantitative chemical analysis*, 6th Edition.
2. Pandey, O. P., Bajpai, D. N., Giri, S., *Practical Chemistry*.
3. Ghoshal, Mahapatra ,Nad , *An Advanced course in Practical Chemistry*.