

SARDAR PATEL UNIVERSITY
Programme : B. Sc.
Semester : II
Syllabus Effective From : June 2018
(50 Marks)

Subject code : US02CCHE22	Total credits : 2
Title of subject: Practical in Chemistry- II	

External exam will be of 03 hours and it shall includes following both exercise.

Exercise	Description In Detail	Weightage
I	Volumetric analysis of redox reaction (i) $\text{KMnO}_4 \rightarrow \text{FeSO}_4(\text{NH}_4)_2 \cdot \text{SO}_4$ (ii) $\text{K}_2\text{Cr}_2\text{O}_7 \rightarrow \text{FeSO}_4$ (iii) Oxalic acid Vs KMnO_4	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*.