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Total Marks = 50

Credit hour = 4

1. Verification of Beer- Lambert's Law by Colorimetric method.
2. Determination of  $\text{Na}^+/\text{K}^+$  ion by Flame Photometry.
3. Determination of Ascorbic acid in tablets.
4. Determination of Dissolved Oxygen(DO) in Water sample.
5. Measurements of pH of soils by a pH meter.
6. Determination of chemical oxygen demand(COD) in water sample.
7. Determination of moisture contents in soils by gravimetric method.
8. Analysis of fat in butter sample.
9. Determination of Biochemical Oxygen Demand(BOD) in water sample.
10. Estimation of metal ion by ion-exchange method.

Books Recommended;

Text book:

1. Instrumental techniques for Analytical Chemistry by Frank Settle, Prentice
2. Analytical Chemistry: Principles by J. H. Kennedy, Brooks, Coole
3. Standard methods for the Examination of Water and Waste Water, APHA, Washington DC.
4. Analytical Chemistry; A Practical Approach by E. E. Hywel, Oxford University Press
5. Analytical Chemistry, G.D. Christian, J. Wiley
6. Analytical Chemistry-Principle and Techniques, L.G. Hargis, Prentice Hall.

## CH-545 DISSERTATION WORK PRESENTATION & DEFENSE

Total Marks = 100

Credit hour = 8

This is a project/ review type of work, has to be carried out by each Final year student under direct supervision of faculty member(s) allotted against his/her name by the Department, that shall be notified by the Department in the due course of time in second year and the report shall be submitted by the students during end term Examination of the fourth semester.

\*\*\*\*\*End of The Syllabus\*\*\*\*\*