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Miller, Jr. G.T. 1994. Living in the Environment: Principles, Connections and Solutions. Wadsworth Publishing Co.

Nair, B.N. and Thampy, D.M. 1980. Marine Ecology. Macmillan Co. of India.

Rai, M.M. 1981. Principles of Soil Science. Macmillan Co. of India.

Strahler, A.N. and Strahler, A.H. 1973. Environmental Geoscience – Interactions between Natural Systems and Man. John Wiley and Sons.

#### SEMESTER – I

#### ES 112 PHYSICO-CHEMICAL ANALYSIS OF WATER

Each practical unit is of 3 hours duration – (45 hours)

1. Sampling Technique of Water
2. Determination of pH – pH metric method
3. Determination of EC – Conductivity method
4. Estimation of Turbidity-Nephelometric method
5. TS, TSS & TDS- Gravimetric and Filtration method
6. Estimation of Alkalinity – Acidimetric method
7. Estimation of Hardness – EDTA Complexometric method
8. Estimation of Chlorides – Argentometric method
9. Estimation of Dissolved Oxygen –Winkler's method
10. Estimation of Nitrate – Phenoldisulfonic Acid method

#### Reference Books

Sawyer, C.N. and Mc Carty, P. L. 1978. Chemistry for Environmental Engineering. Mc Graw – Hill International.

Standard Method for Examination of Water and Wastewater. 1989. APHA –AWWA – WPCF

Standard Method for Examination of Water and Wastewater. 1998. APHA –AWWA - WEF

Trivedi, P.K. and Goel, P.K. 1984. Chemical and Biological Methods of Water Pollution Studies. Environmental Publication.

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