

SYLLABUS

Time Allowed: 3 Hours

Max. Marks: 30

Evaluation Scheme for Examination	Marks
• Volumetric Analysis	08
• Salt Analysis	08
• Content Based Experiment	06
• Project work	04
• Class Record and Viva	04
Total	30

PRACTICAL SYLLABUS

Total Periods: 60

Micro-chemical methods are available for several of the practical experiments. Wherever possible, such techniques should be used.

A. Surface Chemistry

- Preparation of one lyophilic and one lyophobic sol.
Lyophilic sol-starch, egg albumin and gum
Lyophobic sol-aluminum hydroxide, ferric hydroxide and arsenous sulphide
- Dialysis of sol-prepared in (a) above.
- Study of the role of emulsifying agents in stabilizing the emulsion of different oils.

B. Chemical Kinetics

- Effect of concentration and temperature on the rate of reaction between Sodium Thiosulphate and Hydrochloric acid.
- Study of reaction rates of any one of the following:
 - Reaction of Iodide ion with Hydrogen Peroxide at room temperature using different concentration of Iodide ions.
 - Reaction between Potassium Iodate (KIO_3), and Sodium Sulphite (Na_2SO_3) using starch solution as indicator (clock reaction).

C. Thermochemistry

- Any one of the following experiments:
- Enthalpy of dissolution of Copper Sulphate or Potassium Nitrate.
 - Enthalpy of neutralization of a strong acid (HCl) and a strong base (NaOH).
 - Determination of enthalpy change during interaction (Hydrogen bond formation) between Acetone and Chloroform.

D. Electrochemistry

- Variation of cell potential in $\text{Zn}/\text{Zn}^{2+} \parallel \text{Cu}^{2+}/\text{Cu}$ with change in concentration of electrolytes (CuSO_4 or ZnSO_4) at room temperature.

E. Chromatography

- Separation of pigments from extracts of leaves and flowers by paper chromatography and determination of R_f value
- Separation of constituents present in an inorganic mixture containing two cations only (constituents having large difference in R_f values to be provided).

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Edugorilla Prep Experts



Chemistry Lab Manual Class 12 State Board:

Manual, Programs, and Courses of Studies for Kentucky High Schools Kentucky. State Board of Education, 1927
Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science , 2003-11
Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction Annual Report of the Illinois State Board of Health ... Illinois State Board of Health, 1884 **Resources in education** , 1987-02 Annual report of the State Board of Health of Illinois. 1884 , 1884 *The United States Catalog* Marion E. Potter, 1912 Annual Report of Illinois State Board of Health Illinois State Board of Health, 1884 **The Spatula** Irving P. Fox, 1903 **Research in Education** , 1973 *The Cumulative Book Index* , 1933 **The American School Board Journal** William George Bruce, William Conrad Bruce, 1901 **Who's who in New England** , 1915 **Who's who in America** , 1930 Subject Guide to Books in Print , 2001 Report of State Officers, Board and Committees to the General Assembly of the State of South Carolina South Carolina. General Assembly, 1920 **Christian Home Educators' Curriculum Manual** Cathy Duffy, 1997-11 *The Publishers' Circular and Booksellers' Record* , 1929 **The Polands from Essex County, Massachusetts** , 1981 Thomas Poland immigrated from Gloucester England to Lynn Harbor Massachusetts about 1642 Another immigrant was Hannah Poland the mother of John James and Samuel John married Bethiah Freind Friend Includes records of many Poland families **Who's who in Engineering** John William Leonard, Winfield Scott Downs, M. M. Lewis, 1925 **Druggists' Circular** , 1925

Unveiling the Power of Verbal Art: An Emotional Sojourn through **Chemistry Lab Manual Class 12 State Board**

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