

# LABORATORY MANUAL

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# CHEMISTRY

X-38



# Arya Publications Lab Manual Chemistry Class 11

**Dr. N.K. Verma, Avinash Ojha**

## **Arya Publications Lab Manual Chemistry Class 11:**

**Intelligent Computing Techniques for Smart Energy Systems** Akhtar Kalam, Khaleequr Rehman Niazi, Amit Soni, Shahbaz Ahmed Siddiqui, Ankit Mundra, 2019-12-16 The book compiles the research works related to smart solutions concept in context to smart energy systems maintaining electrical grid discipline and resiliency computational collective intelligence consisted of interaction between smart devices smart environments and smart interactions as well as information technology support for such areas It includes high quality papers presented in the International Conference on Intelligent Computing Techniques for Smart Energy Systems organized by Manipal University Jaipur This book will motivate scholars to work in these areas The book also prophesies their approach to be used for the business and the humanitarian technology development as research proposal to various government organizations for funding approval

### **Practical/Laboratory**

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The Compact Edition of the Oxford English Dictionary Sir James Augustus Henry Murray,1971 Micrographic reproduction of the 13 volume Oxford English dictionary published in 1933 **Comprehensive Practical Chemistry XI** Dr. N. K. Verma,B. K. Vermani,Dr. Neera Verma,2010-02 Practical/Laboratory Manual Chemistry Class XII based on NCERT guidelines by Dr. S. C. Rastogi, Er. Meera Goyal Dr. S. C. Rastogi ,Er. Meera Goyal,2020-06-22 A Surface Chemistry 1 To prepare colloidal solution sol of starch 2 To prepare a colloidal solution of egg albumin 3 To prepare colloidal solution of gum 4 To prepare colloidal solution of aluminium hydroxide  $\text{Al(OH)}_3$  5 To prepare colloidal solution of ferric hydroxide  $\text{Fe(OH)}_3$  6 To prepare colloidal solution of arsenious sulphide  $\text{As}_2\text{S}_3$  7 To purify a freshly prepared sol by dialysis 8 To compare the effectiveness of different common oils Castor oil cotton seed oil coconut oil kerosene oil mustard oil in forming emulsions Viva Voce B Chemical Kinetics 1 To study the effect of concentration on the rate of reaction between sodium thiosulphate and hydrochloric acid 2 To study the effect of temperature on the rate of reaction between sodium thiosulphate and hydrochloric acid 3 To study the rate of reaction of iodide ions with hydrogen peroxide at different concentrations of iodide ions 4 To study the rate of reaction between potassium iodate  $\text{KIO}_3$  and sodium sulphite  $\text{Na}_2\text{SO}_3$  using starch solution as indicatorl Viva Voce C Thermochemistry 1 Determine the enthalpy of dis solution of copper sulphate  $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$  in water at Room temperature 2 To determine the enthalpy of neutralization of the reaction between  $\text{HCl}$  and  $\text{NaOH}$  3 To determine enthalpy change during the interaction between acetone and chloroform Viva Voce D Electrochemistry 1 To study the variation of cell potential in  $\text{Zn} \text{Zn}^2 \text{Cu}^2 \text{Cu}$  with change in concentration of electrolytes  $\text{CuSO}_4$  or  $\text{ZnSO}_4$  at room temperature Viva Voce E Chromatography 1 To separate the coloured components pigment present in the given extract of leaves and flowers by ascending paper chromatography and find their  $R_f$  values 2 To separate the coloured components present in the mixture of

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Content 1 Some Basic Concepts of Chemistry 2 Structure of Atom 3 Classification of Elements and Periodicity in Properties 4 Chemical Bonding and Molecular Structure 5 States of Matter 6 Thermodynamics 7 Equilibrium 8 Redox Reactions 9 Hydrogen 10 s Block Elements 11 p Block Elements 12 Organic Chemistry Some Basic Principles and Techniques 13 Hydrocarbons 14 Environmental Chemistry I Appendix II Log antilog Table *Conceptual Chemistry Class XI Vol. II* S K Jain, A book on Conceptual Chemistry *Home Science and Physical Education Diploma* University of Otago. School of Home Science, 1951 **Chemistry Class 11** Dr. S C Rastogi, Er. Meera Goyal, 2022-06-14 This Book has been written in accordance with the New Syllabus of Madhyamik Shiksha Mandal Madhya Pradesh Bhopal based on the curriculum of CBSE NCERT Including solved questions of NCERT book based on new examination pattern and mark distribution Highly Useful for NEET AIIMS IIT JEE APJ AKTU and Engineering Medical Examinations Syllabus Unit I Some Basic Concepts of Chemistry Unit II Structure of Atom Unit III Classification of Elements and Periodicity in Properties Unit IV Chemical Bonding and Molecular Structure Unit V States of Matter Gases and Liquids Unit VI Chemical Thermodynamics Unit VII Equilibrium Unit VIII Redox Reactions Unit IX Hydrogen Unit X s Block Elements Alkali and Alkaline earth metals Group 1 and Group 2 Elements Unit XI Some p Block Elements General Introduction to p Block Elements Unit XII Organic Chemistry Some Basic Principles and Techniques Unit XIII Hydrocarbons Classification of Hydrocarbons Unit XI V Environmental Chemistry Content 1 Some Basic Concepts of Chemistry 2 Structure of Atom 3 Classification of Elements and Periodicity in Properties 4 Chemical Bonding and Molecular Structure 5 States of Matter 6 Thermodynamics 7 Equilibrium 8 Redox Reactions 9 Hydrogen 10 s Block Elements 11 p Block Elements 12 Organic Chemistry Some Basic Principles and Techniques 13 Hydrocarbons 14 Environmental Chemistry I Appendix II Log antilog Table **Chemistry 112 Laboratory Manual**, 2025-01-02

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