

Class XII

LABORATORY MANUAL

CHEMISTRY



LABORATORY MANUAL CHEMISTRY

Class XII

NCERT



Chemistry 2 Lab Manual Ncert

Dr. S. C. Rastogi , Er. Meera Goyal



Chemistry 2 Lab Manual Ncert:

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A Basic Laboratory Techniques

- 1 To cut a glass tube or glass rod
- 2 To bend the glass rod at an angle
- 3 To draw a glass jet from a glass tube
- 4 To bore a cork and fit a glass tube into it

B Characterisation and Purification of Chemical Substances

- 1 To determine the melting point of the given unknown organic compound and its identification simple laboratory technique
- 2 To determine the boiling point of a given liquid when available in small quantity simple laboratory method
- 3 To prepare crystals of pure potash alum $K_2SO_4 \cdot Al_2(SO_4)_3 \cdot 24H_2O$ from the given impure sample
- 4 To prepare the pure crystals of copper sulphate from the given crude sample
- 5 To prepare pure crystals of benzoic acid from a given impure sample

C Measurement of pH Values

- 1 To determine the pH value of vegetable juices fruit juices tap water and washing soda by using universal pH paper
- 2 To determine and compare the pH values of solutions of strong acid HCl and weak acid CH_3COOH of same concentration
- 3 To study the pH change in the titration of strong base Vs strong acid by using universal indicator paper
- 4 To study the pH change by common ion CH_3COO^- ion in case of weak acid CH_3COOH
- 5 To determine the change in pH value of weak base NH_4OH in presence of a common ion NH_4^+

D Chemical Equilibrium

- 1 To study the shift in equilibrium between ferric ions and thiocyanate ions by changing the concentrations of either of the ions
- 2 To study the shift in equilibrium between Co^{2+} and Cl^- ions by changing the concentrations of either of the ions

E Quantitative Analysis

- 1 To prepare M 10 oxalic acid solution by direct weighing method
- 2 To prepare M 10 solution of sodium carbonate by direct weighing method
- 3 To determine the strength of given solution of sodium hydroxide by titrating it against N 10 or M 20 solution of oxalic acid
- 4 To determine the strength of a given solution of hydrochloric acid by titrating it against a standard N 10 or M 20 sodium carbonate solution

F Qualitative Analysis

- 1 Analysis of Anions
- 2 Analysis of Cations

G Detection of Elements in Organic Compounds

- 1 To detect the presence of nitrogen sulphur and halogens in a given organic compound by Lassaigne's test
- 2 To detect the presence of nitrogen sulphur and halogens in the given organic compound sample number by Lassaigne's test

INVESTIGATORY PROJECTS

A Checking of Bacterial Contamination in Water

- 1 To check the bacterial contamination in drinking water by testing sulphide ions

B Methods of Water Purification

- 1 To purify water from suspended impurities by using sedimentation
- 2 To purify water by boiling
- 3 To purify water by distillation method
- 4 To purify water by reverse osmosis technique
- 5 To purify water by GAC method
- 6 To purify water by bleach treatment
- 7 To purify water by oxidising agent
- 8 To purify water by ozone treatment method

C Water Analysis

- 1 To test the hardness of different water samples

D Foaming Capacity of Various Soaps

- 1 To compare the foaming capacity of different washing soaps
- 2 To study the effect of addition of sodium carbonate on foaming capacity of washing soap

E Tea Analysis

- 1 To study the acidity of different samples of tea leaves tea by using pH paper

F

Analysis of Fruits and Vegetable Juices 1 To analyse the fruit and vegetable juices for the constituent present in them G Rate of Evaporation 1 To study the rate of evaporation of different liquids H Effect of Acids and Bases on Tensile Strength of Fibres 1 To compare the tensile strength of natural fibres and synthetic fibres 2 To study the effect of acids and bases on tensile strength of different fibres Log Antilog Table

Practical/Laboratory Manual Physics Class XII based on NCERT guidelines by Dr. Sunita Bhagia & Megha Bansal Dr. J. P. Goel, Er. Meera Goyal, 2020-06-24

SECTION A EXPERIMENTS 1 To determine resistance per cm of a given wire by plotting a graph for potential difference versus current 2 To find resistance of a given wire using meter bridge and hence determine the specific resistance Resistivity of its material 3 To verify the laws of combination Series Parallel of resistance using ammeter bridge 4 To compare the e.m.f. of two given primary cells using potentiometer 5 To determine the internal resistance of a given primary cell e.g. Leclanche cell using potentiometer 6 To determine the resistance of a galvanometer by half deflection method and to find its figure of merit 7 A To convert a given galvanometer of known resistance and figure of merit into an ammeter of desired range and to verify the same 7 B To convert a given galvanometer of known resistance and figure of merit into a voltmeter of desired range and to verify the same 8 To find the frequency of AC mains with a sonometer and horse shoe magnet

SECTION B EXPERIMENTS 1 To find the value of v for different values of u in case of a concave mirror and to find the focal length 2 To find the focal length of a convex lens by plotting graph between u and v or $1/u$ and $1/v$ 3 To find the focal length of a convex mirror using a convex lens 4 To find the focal length of a concave lens using a convex lens 5 To determine the angle of minimum deviation for a given prism by plotting a graph between the angle of incidence and angle of deviation 6 To determine refractive index of a glass slab using a travelling microscope 7 To find the refractive index of a liquid by using a convex lens and a plane mirror 8 To draw I-V characteristics curve of a p-n junction in forward bias and reverse bias 9 To draw the characteristics curve of a Zener diode and to determine its reverse break down voltage 10 To study the characteristics of a common emitter n-p-n or p-n-p transistor and to find out the values of current and voltage gains

SECTION A ACTIVITIES 1 To measure the resistance and impedance of an inductor with or without iron core 2 To measure resistance voltage AC DC current AC and check continuity of given circuit using multimeter 3 To assemble a household circuit comprising of three bulbs three on/off switches a fuse and a power source 4 To assemble the components of a given electrical circuit 5 To study the variation in potential drop with length of a wire for a steady current 6 To draw the diagram of a given open circuit comprising at least a battery resistor rheostat key ammeter and voltmeter Make the components that are not connected in proper order and correct the circuit and also the circuit diagram

SECTION B ACTIVITIES 1 To study effect of intensity of light by varying distance of the source on an LDR Light Depending Resistor 2 To identify a diode a LED a transistor an IC a resistor and a capacitor from mixed collection of such items 3 Use a multimeter to i identify the transistor ii distinguish between n-p-n and p-n-p type transistor iii see the unidirectional flow of current in case of a diode and a LED iv Check whether a given electronic

components e.g. diode transistor or IC is in working order

- 4 To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab
- 5 To observe polarisation of light using two polaroids
- 6 To observe diffraction of light due to a thin slit
- 7 To study the nature and size of the image formed by i) convex lens ii) concave mirror on a screen by using candle and a screen for different distance of the candle from the lens/mirror
- 8 To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses

SUGGESTED INVESTIGATORY PROJECT

- 1 To Study Various factors on which the Internal Resistance EMF of a cell depends
- 2 To study the variations in current following in a circuit containing L D R because of variation a) In the power of incandescent lamp used to illuminate the L D R Keeping all the lamps in fixed position b) In the Distance of a incandescent lamp of fixed power used to illuminate the L D R
- 3 To find the refractive indices of a) Water b) Oil Transparent using a plane mirror an equiconvex lens made from a glass of known refractive index and an adjustable object needle
- 4 To design an appropriate logic gate combination for a given truth table
- 5 To investigate the relation between the ratio of i) Output and Input voltage ii) Number of turns in secondary coils and primary coils of a self designed transformer
- 6 To Investigate the dependence of angle of deviation on the angle of incidence using a hollow prism filled one by one with different transparent fluids
- 7 To Estimate the charge induced on each one of the two identical styrofoam balls suspended in a vertical plane by making use of Coulomb's Law
- 8 To study the factors on which the self inductance of a coil depends by observing the effect of this coil when put in series with a resistor bulb in a circuit fed up by an a.c. source of adjustable frequency
- 9 To study the earth's magnetic field using a tangent galvanometer

APPENDIX Some Important Tables of Physical Constants Logarithmic and other Tables

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The CBSE has made certain changes in the assessment structure from the session 2019-20 onwards. In the new scheme of examination CCE and term system has been replaced with the Internal Assessment Single Annual Exam by CBSE itself. Single exam conducted by CBSE will carry 80 marks whereas 20 marks are left to the schools for internal assessment. CBSE has issued detailed guidelines on how the internal marks will be divided among different activities. From 2019 onwards there will be internal choices in board examinations with increased internal options in the question paper. Considering this change now a student has to prepare accordingly for board examinations. The new assessment format brought with it excitement as well as anxiety. And to help them prepare and excel in their CBSE board examination Career Point Kota has developed a series of 10 Most Likely Question Papers with Solutions. The Key Features of Most Likely Question Papers with Solutions Series New OBJECTIVE TYPE question in each paper. Syllabus of CBSE 2019-20. Based on the latest CBSE Syllabus. Pattern Mind map of each chapter is given to visualize and help acquire a better understanding. Important terms facts formulae and quick revision tips are given. Covers questions asked in previous year board exams. Toppers Answer Sheet as released by CBSE to understand the scoring technique. We hope this book will gratify students' need for the new CBSE pattern board exam and smoothen their path to

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web step 1 design and build cut the wood to the right dimensions assemble the frame of the houses attach the wood panels to the frame using wood glue or small screws sand the entire house to smooth out any rough edges stain or paint the house to your desired color optional add roofing material to the house

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web place the first set of popsicle sticks to the desired height make sure the edges of the sticks are all lined up once ready glue the sticks together using the paintbrush and mod podge dip the paintbrush into mod podge and then paint the mod podge onto the popsicle sticks to attach them together

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the center of the glued stick should be where the 2 sticks meet glue side down

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web glue the house together according to your plans blueprints when i created my house i used the paper to make the angle and the roof this step is very important because if you glue the house together using too much glue or used too little glue your house may break or

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