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LABORATORY MANUAL CHEMISTRY

(C.B.S.E. Syllabus)

Class XI



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Class Xi Lab Manual Chemistry

**D. C. Upadhyay, Dr. J. P. Goel, Er.
Meera Goyal**



Class Xi Lab Manual Chemistry:

Practical/Laboratory Manual Chemistry Class - XI Er. Meera Goyal, 2021-05-29

1 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
Viva Voce

2 Characterisation and Purification of Chemical Substances

1 To determine the melting point of the given unknown organic compound and its identification simple laboratory technique
Viva Voce
2 To determine the boiling point of a given liquid when available in small quantity simple laboratory method
Viva Voce
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
Viva Voce

3 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^+
Viva Voce

4 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 $Co(H_2O)_6^{2+}$ and Cl^- ions by changing the concentrations of either of the ions
Viva Voce

5 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
Viva Voce

6 Qualitative Analysis

Analysis of Anions
Analysis of Cations
Viva Voce

7 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
Viva Voce

INVESTIGATORY PROJECTS

1 Checking of Bacterial Contamination in Water

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

2 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
Viva Voce

3 Water Analysis

1 To test the hardness of different water samples
Viva Voce

4 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
Viva Voce

5 Tea Analysis

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

6 Analysis of Fruits and Vegetable Juices

1 To analysis the fruit and vegetable juices for the constituent present in them

Viva Voce 7 Rate of Evaporation 1 To study the rate of evaporation of different liquids IViva Voce 8 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 Viva Voce

Chemistry Lab Manual Class XI | follows the latest CBSE syllabus and other State Board following the CBSE Curriculum. Mr. Rohit Manglik, Mr. Kaushalesh

Dwivedi, 2022-08-04 With the NEP and expansion of research and knowledge has changed the face of education to a great extent In the Modern times education is not just constricted to the lecture method but also includes a practical knowledge of certain subjects This way of education helps a student to grasp the basic concepts and principles Thus trying to break the stereotype that subjects like Physics Chemistry and Biology means studying lengthy formulas complex structures and handling complicated instruments we are trying to make education easy fun and enjoyable

Practical/Laboratory Manual Chemistry Class XI based on NCERT guidelines by Dr. S. C. Rastogi & Er. Meera Goyal Dr. S. C. Rastogi, Er. Meera

Goyal, 2020-06-23 An Excellent Book in Accordance with the latest syllabus for Class 11 Prescribed by CBSE NCERT and Adopted by Various State Education Boards 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

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by Dr. J. P. Goel & Er. Meera Goyal Dr. J. P. Goel ,Er. Meera Goyal,2020-06-24 SECTION A EXPERIMENTS 1

Measurement of Length 1 To measure the diameter of a small spherical cylindrical body by using a vernier callipers 2 To measure the dimensions of a given regular body of known mass using vernier callipers and hence find its density 3 To measure the internal diameter and depth of a given cylindrical vessel say calorimeter beaker by using vernier callipers and hence find its internal volume i e capacity Viva voce 2 Screw Gauge Micrometer 4 To determine the diameter of a given wire using a screw gauge and find its volume 5 To find the thickness of a given sheet with the help of screw gauge 6 To measure the volume of an irregular lamina by using a screw gauge Viva voce 3 Spherometer 7 To measure the radius of curvature of a given spherical surface convex lens by using a spherometer Viva voce 4 Mass and Weight 8 To determine the mass of two different objects using a beam balance Viva voce 5 Parallelogram Law of Vectors 9 To find the weight of a given body using parallelogram law of vectors Viva voce 6 Simple Pendulum Measurement of Time 10 Using a simple pendulum plot L T and L T² graphs Hence find the effective length of a second s pendulum using appropriate graphs Viva voce 7 Friction 11 To study the relationship between force of limiting friction and normal reaction and to find the coefficient of friction between a block and a horizontal surface Viva voce 8 Motion of a Body Along an Inclined Plane 12 To find the downward force along an inclined plane acting on a roller due to gravitational pull of the earth and study its relationship with the angle of inclination by plotting graph between force and sin Viva voce SECTION B EXPERIMENTS 1 Elasticity 1 To determine the Young s modulus of elasticity of the material of the wire using Searle s apparatus Viva voce 2 Spring Constant 2 To find the spring constant of a helical spring by plotting load extension graph Viva voce 3 Boyle s Gas Law 3 To study the variation in volume with pressure for a sample of air constant temperature by plotting graphs between P and V and between P and 1/V 18 Viva voce 4 Surface Tension 4 To determine the surface tension of water by capillary rise method Viva voce 5 Viscosity 5 To

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and germinating seeds 10A To test presence of urea in urine 10B To test presence of sugar in urine 10C To detect presence of albumin in urine 10D To test urine for presence of bile salt

SPOTTING 1 Study of compound microscope 2 To study the plant specimen and identification with reasons Bacteria Oscillatoria Spirogyra Rhizopus Mushroom Yeast Liverwort Moss Fern Pine One Monocotyledonous plant One dicotyledonous plant and one Lichen 3 Study of animal specimens 1 Amoeba 2 Hydra 3 Fasciola Hepatica Liver fluke 4 Ascaris Lumbricoides 5 Hirudinaria Granulosa 6 Pheretima Posthuma 7 Palaemon 8 Bombyx Mori 9 Apis Indica Honeybee 10 Pila Globasa Snail 11 Asterias Starfish 12 Scoliodon Dogfish Shark 13 Labeo Rohita Rohu 14 Rana Tigrina Frog 15 Hemidactylus Lizard 16 Columba Livia Pigeon 17 Orytolagus Cuniculus Rabbit

4A To study the plant tissues Palisade cells Guard cells Parenchyma Collenchyma Sclerenchyma Xylem and Phloem through prepared slide

4B To study the animal tissue squamous epithelium muscles fibres through prepared slide

4C To study mammalian blood smear by temporary permanent slide

5 Study of mitosis in root tip of onion 6 Study of different modification in root stem and leaves 7 To study and identify different types of inflorescence Racemose and Cymose 8 To study imbibition in seed raisins 9 To demonstrate that anaerobic respiration take place in the absence of air 10 To study human skeleton and joints 11 To study the external features of cockroach with help of model or chart

Chemistry Class 11 - [Bihar & JAC] Dr. S. C. Rastogi, ,Er. Meera Goyal,2022-07-20 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 XIV Environmental Chemistry

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Mathematics Class XI by Dr. Ram Dev Sharma, Er. Meera Goyal Dr. Ram Dev Sharma,Er. Meera Goyal,2020-06-27 Unit I Sets and Functions 1 Sets 2 Relations and Functions 3 Trigonometric Functions Unit II Algebra 4 Principle of Mathematical Induction 5 Complex Numbers and Quadratic Equations 6 Linear Inequalities 7 Permutations and Combinations 8 Binomial Theorem 9 Sequences and Series Unit III Co ordinate Geometry 10 Straight Lines

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Problems and Solutions Mathematics Class XI by Dr. Ram Dev Sharma, Er. Meera Goyal Dr. Ram Dev Sharma, Er. Meera Goyal, 2020-06-27 1 Sets 2 Relations and Functions 3 Trigonometric Functions 4 Principle of Mathematical Induction 5 Complex Numbers and Quadratic Equations 6 Linear Inequalities 7 Permutations and Combinations 8 Binomial Theorem 9 Sequences and Series 10 Straight Lines 11 Conic Sections 12 Introduction to Three Dimensional Geometry 13 Limits and Derivatives 14 Mathematical Reasoning 15 Statistics 16 Probability **Numerical Physics With Chapterwise Question - Answers Class XI by D. C. Upadhyay, Dr. J. P. Goel, Er. Meera Goyal D. C. Upadhyay, Dr. J. P. Goel, Er. Meera Goyal, 2020-06-27** Unit 1 Physical World and Measurement 1 Systems of Units and Measurement 2 Significant Figures and Error Analysis 3 Dimensional Analysis Unit 2 Kinematics 4 Motion in a Straight Line 5 Vector Analysis 6 Motion in a Plane Unit 3 Laws of Motion 7 Newton s Laws of Motion 8 Friction 9 Uniform Circular Motion Unit 4 Work Energy and Power 10 Work Energy and Power Unit 5 Motion of System of Particles and Rigid Body 11 Centre of Mass 12 Rotational Motion and Moment of Inertia Unit 6 Gravitation 13 Gravitation Unit 7 Properties of Bulk Matter 14 Elasticity 15 Pressure of Fluids 16 Viscosity 17 Surface Tension 18 Temperature and Calorimetry 19 Transfer of Heat Unit 8 Thermodynamics 20 First Law of Thermodynamics 21 Second Law of Thermodynamics Unit 9 Behaviour of Perfect Gases and Kinetic Theory of Gases 22 Behaviour of Perfect Gas and Kinetic Theory of Gases Unit 10 Oscillations and Waves 23 Oscillations 24 Speed of Mechanical Waves and Progressive Waves 25 Superposition of Waves Interference and Beats 26 Reflection of Waves Stationary Waves in Stretched Strings and Organ Pipes 27 Doppler s Effect **EduGorilla CBSE Board Class XI (Science-PCB) Exam 2024 | Solved 84 Topic Tests For Physics, Chemistry and Biology with Free Access to Online Tests EduGorilla Prep Experts, 2024-06-27** Best Selling Book for CBSE Board Class XI Science PCB Practice Tests with objective type questions as

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