

Chapter 1 : Class XII CBSE Chemistry Practicals - Viva Questions on Titration

CHEMISTRY PRACTICALS CLASS-XII. EXPERIMENT No. 1 AIM - (a) To prepare ml of M/20 solution of oxalic acid. (b) Using this calculate the molarity and strength of the given KMnO₄ solution.

Solid State Periods 12 Classification of solids based on different binding forces: Molecular, ionic, covalent and metallic solids, amorphous and crystalline solids elementary idea. Unit cell in two dimensional and three dimensional lattices, calculation of density of unit cell, packing in solids, packing efficiency, voids, number of atoms per unit cell in a cubic unit cell, point defects, electrical and magnetic properties. Chemical Kinetics Periods 12 Rate of a reaction Average and instantaneous, factors affecting rate of reaction: Concentration, temperature, catalyst; order and molecularity of a reaction, rate law and specific rate constant, integrated rate equations and half life only for zero and first order reactions, concept of collision theory elementary idea, no mathematical treatment. Activation energy, Arrhenius equation. Surface Chemistry Periods 8 Adsorption-physisorption and chemisorption, factors affecting adsorption of gases on solids, catalysis, homogenous and heterogenous activity and selectivity; enzyme catalysis colloidal state distinction between true solutions, colloids and suspension; lyophilic, lyophobic multimolecular and macromolecular colloids; properties of colloids; Tyndall effect, Brownian movement, electrophoresis, coagulation, emulsion-types of emulsions. General Principles and Processes of Isolation of Elements Periods 8 PCl₃, PCl₅ Principles and methods of extraction-concentration, oxidation, reduction-electrolytic method and refining; currence and principles of extraction of aluminium, copper, zinc and iron. Preparation and properties of phosphine, halides and oxoacids elementary idea only. General introduction, electronic configuration, oxidation states, occurrence, trends in physical and chemical properties, dioxygen: Preparation, Properties and uses, classification of oxides, Ozone, Sulphur-allotropic forms; compounds of sulphur: Preparation properties and uses of sulphur-dioxide, sulphuric acid: Industrial process of manufacture, properties and uses; Oxoacids of sulphur Structures only. General introduction, electronic configuration, oxidation states, occurrence, trends in physical and chemical properties; compounds of halogens, Preparation, properties and uses of chlorine and hydrochloric acid, interhalogen compounds, oxoacids of halogens structures only. General introduction, electronic configuration, occurrence, trends in physical and chemical properties, uses. D and F Block Elements Periods 14 General introduction, electronic configuration, occurrence and characteristics of transition metals, general trends in properties of the first row transition metals-metallic character, ionization enthalpy, oxidation states, ionic radii, colour, catalytic property, magnetic properties, interstitial compounds, alloy formation, preparation and properties of K Cr O and KMnO₄. Actinoids-Electronic configuration, oxidation states and comparison with lanthanoids. Coordination Compounds Periods 12 Coordination compounds-Introduction, ligands, coordination number, colour, magnetic properties and shapes, IUPAC nomenclature of mononuclear coordination compounds. Haloalkanes and Haloarenes Periods 12 Haloalkanes: Nomenclature, nature of C-X bond, physical and chemical properties, mechanism of substitution reactions, optical rotation. Nature of C-X bond, substitution reactions Directive influence of halogen in monosubstituted compounds only. Uses and environmental effects of-dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT. Alcohols, Phenols and Ethers Periods 12 Alcohols: Nomenclature, methods of preparation, physical and chemical properties of primary alcohols only, identification of primary, secondary and tertiary alcohols, mechanism of dehydration, uses with special reference to methanol and ethanol. Nomenclature, methods of preparation, physical and chemical properties, acidic nature of phenol, electrophilic substitution reactions, uses of phenols. Nomenclature, methods of preparation, physical and chemical properties, uses. Nomenclature, nature of carbonyl group, methods of preparation, physical and chemical properties, mechanism of nucleophilic addition, reactivity of alpha hydrogen in aldehydes: Nomenclature, acidic nature, methods of preparation, physical and chemical properties; uses. Nomenclature, classification, structure, methods of preparation, physical and chemical properties, uses, identification of primary, secondary and tertiary amines. Cyanides and Isocyanides-will be mentioned at relevant places in text. Preparation, chemical reactions and importance in synthetic organic chemistry. Biomolecules Periods 12 Carbohydrates-Classification aldoses and

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ketoses , monosaccharides glucose and fructose , D-L configuration oligosaccharides sucrose, lactose, maltose , polysaccharides starch, cellulose, glycogen ; Importance of carbohydrates. Proteins-Elementary idea of a-amino acids, peptide bond, polypeptides, proteins, structure of proteins-primary, secondary, tertiary structure and quaternary structures qualitative idea only , denaturation of proteins; enzymes. Hormones-Elementary idea excluding structure. Polymers Periods 8 Classification-natural and synthetic, methods of polymerization addition and condensation , copolymerization, some important polymers: Natural and synthetic like polythene, nylon polyesters, bakelite, rubber. Biodegradable and non-biodegradable polymers. Chemistry in Everyday Life Periods 8 Chemicals in medicines-analgesics, tranquilizers antiseptics, disinfectants, antimicrobials, antifertility drugs, antibiotics, antacids, antihistamines. Chemicals in food-preservation, artificial sweetening agents, elementary idea of antioxidants. Cleansing agents-soaps and detergents, cleansing action.

Chapter 2 : Chemistry XII Practical - Salt Analysis and Other Experiments

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