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| MONTH | CHAPTER | PERIOD | ACTIVITY TOPICS | P.T(M.T) | Internal ASSESSMENT | SUBJECT ENRICHMENT | TERM 1 | TERM 2 | TERM 3 |
| APRIL | CHAPTER-1  SOLUTION  PRACTICAL-01  CHAPTER-2  ELECTROCHEMISTRY  PRACTICAL -02 | 8  02  10 | TYPES OF SOLUTIONS ,EXPRESSION OF CONCENTRATION OF SOLUTIONS OF SOLIDS IN LIQUID SOLUTILUTY OF GAS IN LIQUIDS SOLD SOLUTIONS,RAOULTS LAW,COLLIGATIVE PROPERTIES,RELATIVE LOWERING OF VAPOUR PRESSUSE ELEVATION OF BOILING POINT DEPRESSION OF FREEZING POINT OSOMOTIC PRESSUSE,DETERMINATION OF MOLEULAR MASSES USING COLLIGATIVE PROPERTIES,ABNORMAI MOLEULAR MASS,VANT HOFF FACTOR  DETERMINATION OF CONCENTRATION /MOLARITY OF KMNO4 SOLUTION BY TITRATING IT AGAINST A STANDARD SOLUTION OF 1).OXALIC AND 2).FERROUS AMMONIUM SULPHATE  REDOXREACTIONS, EMF OF CELL, STANDARD ELERCTRODE POTENTIAL , NERNST EQUATION AND ITS APPLICATION TO CHEMICAI WE RELATION BETWEEN GIBBS ENERGY AND EMF OF CELL ,SPECIFIC AND MOLAR CONDUCTIVITY, VARIATION OF CONDUCTIVE WITH CONCENTRATION KOHLRAUSCHS LAW , LAW OF ELECTROLYSIS, GALVANIC CELL , LEAD ACCUMULATOR , FUEL CELLS , CORROSION .  VARIATION OF CELL POTENTIAL IN ZN\ZN2+\\ CU\CU2+ WITH CHANGE IN CONCENTRATION OF ELECTROLYTES (CUSO4 OR ZNSO4 ) AT ROOM TEMPERATURE. |  | ORAI QUESTIONS BASED ON SOLUTION (MCQ) PREPARATION OF SOLUTION OF ELECTROLYTES  ORAL TEST, LAB ACTIVITY CONDUCTANCE OF ELECTROLYTES. | ACTIVITY: PREPATION OF A TRUE SOLUTION OF COMMON SALT SUGAR AND ALUM .GIVE SOME EXAMPLE AND TYPES OF SOLUTION MAKE A AASSIGNMENT ABOUT IT.  ACTIVITY : VARIATION OF CELL POTENTIAL IN ZN/ZN2+\\ CU2+\CU WITH CHANGE IN CONCENTRATION | 07  9 | 07  9 | 07  9 |
| MAY | CHAPTER – 3  CHEMICAL KINETICS  Practical -3 | 12  3 | RATE OF REACTION , FACTOR AFFECTING RATE OF REACTION , CATALYST , ORDER AND MOLECULARITY OF A REACTION , RATE LAW , HALF LIFE , COLLISION THEORY , ACTIVATION ENERGY , ARRHENIUS EQUATION.  Reaction between potassium iodide and sodium sulphite using starch solution as indicator , study of reaction rates. | 20\05\024 | Oral and lab activity related with chemical kinetics | Activity : Effect of concentration and temperature on the rate of reaction between Thiosulphate and Hydrochloric acid (Hcl) | 07 | 07 | 07 |
| JUNE | Chapter -4  d-f block elements  Practical -4 | 15  1 | General introduction , electronic configuration , occurrence and characteristic of Transition metals , metals –metallic character , ionization enthalpy , oxidation states , preparation and properties of k2cr2o7 and kmno4.  Lanthanoid – electronic configuration , oxidation n states and comparison with lanthanoids.  Experiment related to properties of metal and non –metals |  | Oral question based on d-f block elements | Activity – Students observed the periodic table . Identify d-f block . Make a assignment on d-f block . | 07 | 07 | 07 |
| JULY | Ch-5  Coordination compounds  Practical -5  Ch- 6 Haloalkanes and Haloarenes  Practical -6 | 8  02  8  2 | Introduction , ligands , coordination number , colour , magnetic properties , Iupac , nomenclature of mononuclear , coordination compound , Werners theory , VBT and Cft , structure and stereoisomerism , importance of coordination compound .  Determination of one cation and one anion in a given salt  Cation – Pb2+ , cu2+, As2+, Al3+, Mn2+, Zn2+ etc  Anion –(co3)2- , s2-, (so3) 2-, (No2)-etc .  Haloalkanes – Nomenclature, nature of c-x bond , physical and chemical properties , mechanism of substitution reaction .  Haloarenes –nature of c-x bond , substitution rteaction , uses and environment effect of dichloromethane , trichloromethane , iodoform , DDT, Freons.  Preparation of any one of the following –   1. Acetanilide 2. Di- benzal Acetone 3. P-Nitroacetanilide 4. Aniline yellow |  | Oral and lab activity based on coordination compound  Oral and lab activities related to haloalkanes and haloarenes. | Activity – make a assignment on importance of coordination compound .  Activity – Make assignment or project on uses and environment of DDT, freons , tetrachloromethane . | 7  6 | 7  6 | 7  6 |
| AUG |  |  | REVISION |  |  |  |  |  |  |
| SEP |  |  | TERM 1 EXAM |  |  |  |  |  |  |
| OCT | Ch-7 Alcohol , Phenol and Ethers  Practical -7  CH-8  Aldehyde , Ketones and carboxylic acid  Practical -8 | 8  2  5  2 | Phenol – Nomenclature , method of preparation , physical and chemical properties  Alcohol , ether – Nomenclature , preparation , physical properties and uses .  Test for the functional group present in organic compound – Alcoholic , phenolic  Aldehyde and Ketone – Nomenclature , nature of carbonyl group , method of preparation , physical and chemical properties , mechanism of nucleophilic addition  Carboxylic acids – nomenclature , method of preparation physical and chemical properties and uses of carboxylic acids .  Test for the functional group present in organic compound – Aldehydic , ketonic and Carboxylic acid. |  | Oral and lab activities work related to alcohol , phenol and ether.  Oral and lab activities work related to aldehyde , ketone and carboxylic acid | Activity –Identification of alcoholic and phenolic group in given organic compound .  Activity – Identification or test of aldehydes , ketones and carboxylic acid in given organic compound . | 6  8 | 6  8 | 6  8 |
| Nov  DEC | Ch-9  Amines  Practical -9  Ch-10  Biomolecules  Practical -10  Practical -11 | 8  8  2  02 | Amines – Nomenclature , Classification , structure , method of preparation , physical and chemical properties uses , identification of primary , secondary , Tertiary amines  Diazonium salt – Preparation ,chemical reaction and importance in synthetic organic chemistry  To find the presence  Of an amine functional group in the given organic compound .  Carbohydrates – Classification monosaccharide , D-L configuration  Oligosaccharides  Proteins – Elementary ideas of amino acids , peptide bond , polypeptide proteins , structure of proteins  Vitamins – Classification and function Nucleic acid –DNA and RNA.  Characteristic test of carbohydrates , fats , proteins in pure sample and detection in food stuffs  Separation of pigments from extract of leaves and flowers by paper chromatography and determination of Rf values .  Pre –Board Exam and revision | 2/12/24 | Oral and lab activity work based on amines .  Oral and lab activity work based on Biomolecules. | Activity – Identify the amino group in given organic compound  Identification of primary , secondary , Tertiary .  Activity – Characteristic test for carbohydrate and proteins in the given food stuffs | 6  7 | 6  7 | 6  7 |
| JAN |  |  | Mock Test |  |  |  |  |  |  |
| FEB |  |  | Mock test and revision |  |  |  |  |  |  |
| MAR |  |  | BOARD EXAM |  |  |  |  |  |  |
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| MONDAY TEST | UNIT TEST | 1st term – Ch-1 to 6 |
| M.T -1 Ch- 1 to 3 | U.t -1 Ch – 1 to 3 | 2nd term – Ch- 7 to 10 |
| M.T -2 Ch- 7 ,8 | Ut-2 Ch- 4 to 6 | 3rd term - Ch- 1 to 10 |
|  | U.T – 3 Ch- 7 to 10 |  |