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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 KIO_3 and sodium sulphite Na_2SO_3 using starch solution as indicator viva voce c thermochemistry 1 determine the enthalpy of dissolution of copper sulphate $CuSO_4 \cdot 5H_2O$ in water at room temperature 2 to determine the enthalpy of neutralization of the reaction between HCl and $NaOH$ 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 $Zn|Zn^{2+}||Cu^{2+}|Cu$ with change in concentration of electrolytes $CuSO_4$ or $ZnSO_4$ 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 red and blue inks by ascending paper chromatography and find their R_f values 3 to separate CO_2 and Ni^{2+} ions present in the given mixture by using ascending paper chromatography and determine their R_f values viva voce f preparation of inorganic compounds 1 preparation of double salt of ferrous ammonium sulphate mohr's salt from ferrous sulphate and ammonium sulphate 2 to prepare a pure sample of potash alum fitkari 3 preparation of crystals of potassium ferric oxalate or potassium trioxalato ferrate iii viva voce g preparation of organic compounds 1 preparation of iodoform from ethyl alcohol or acetone 2 preparation of acetanilide in laboratory 3 preparation of β -naphthol aniline dye 4 to prepare a pure sample of dibenzalacetone 5 to prepare a pure sample of p-nitroacetanilide viva voce h tests for the functional groups present in organic compounds viva voce i study of carbohydrates fats and proteins 1 to study simple reactions of carbohydrate 2 to study simple reactions of fats 3 to study simple reactions of proteins 4 to investigate presence of carbohydrates fats and proteins in food stuffs viva voce j volumetric analysis 1 to prepare 250 ml of $M/10$ solution of oxalic acid 2 to prepare 250 ml of $M/10$ solution of ferrous ammonium sulphate 3 prepare $M/20$ solution of oxalic acid with its help find out the molarity and strength of the given

solution of potassium permanganate 4 prepare m 20 solution of mohr s salt using this solution determine the molarity and strength of potassium permanganate solution viva voce k qualitative analysis viva voce investigatory projects 1 to study the presence of oxalate ions in guava fruit at different stages of ripening 2 to study the quantity of caseine present in different samples of milk 3 preparation of soyabean milk and its comparison with natural milk with respect to curd formation effect of temperature etc 4 to study the effect of potassium bisulphite as food preservative at various concentrations 5 to study the digestion of starch by salivary amylase and the effect of ph and temperature on it 6 to study and compare the rate of fermentation of the following materials wheat flour gram flour potato juice and carrot juice 7 to extract essential oils present in saunf aniseed ajwain corum illaichi cardomom 8 to detect the presence of adulteration in fat oil and butter 9 to investigate 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