OUTLINE

This thesis consists of five chapters. Chapter 1, Introduction – A comprehensive review, is included in this thesis as a guide for the theoretical background and previous research work in the area of formation of urine and Kidney function, Chapter 2, Theoretical Aspects - A theoretical background and detailed theory on surface tension, viscosity, electrical conductivity, and FT-IR spectroscopy was explained. Chapter 3, Materials and Methods - Deals with the measurement of physical parameters of urine and recording of FT-IR spectra of urine samples. In the present investigation the selected samples are normal urine, pathological urine of diabetic and chronic kidney disease. Chapter 4, Results - provides the information about the experimental results presented in the form of tables and graphs. Chapter 5, Discussion and Conclusions - is provided as the final chapter for summarizing the current research.