Contents

Acknowledgement i-ii

Preface iii-iv

Chapter I: General Introduction (1-60)

Chapter II: Synthesis and Physico-chemical studies of some mixed-ligand cyanonitrosyl \{CrN0\}^5 complexes of chromium with L-Alanine and L-Lysine. (61-93)

Chapter III: Synthesis and Structural characterization of some novel mixed-ligand cyanonitrosyl \{CrN0\}^5 complexes of chromium with Glutamic acid and Aspartic Acid. (94-115)

Chapter IV: Synthesis and characterization of some novel hexa coordinated mixed ligand cyanonitrosyl \{CrN0\}^5 complexes of chromium with Tyrosine and Arginine. (116-134)

Chapter V: Synthesis and structural investigation of some mixed-ligand cyanonitrosyl \{CrN0\}5 complexes of chromium with Cysteic acid and Methionine. (135-152)

Bibliography (153-176)

# - - - - - -