

TABLE OF CONTENTS

		Page No.
Chapter I	INTRODUCTION	1-11
	General aspects of the class of ligands used in the present investigation	1-7
	References	8-11
Chapter II	LITERATURE SURVEY	12-17
	References	18-20
Chapter III	AIMS AND OBJECTIVES OF THE PRESENT WORK & SYSTEMS INVESTIGATED	21-26
	References	27-29
Chapter IV	EXPERIMENTAL	30-43
	Preparation of the ligands	30-32
	Preparation of the metal complexes	33-36
	Description of the instruments used and the experimental details	41-42
	References	43
Chapter V	RESULTS AND DISCUSSION	44-189
	Characterisation of the ligands	44-65

	Characterisation of the complexes of Fe(III), Ru(III), Co(II), Ni(II), Cu(II), Pd(II), Zn(II), Cd(II) and Hg(II) with 4-((2-hydroxybenzylidene)amino)benzenesulfonamide (HBABS) 4-((furan-2-ylmethylene)amino)benzenesulfonamide (FMABS) 4-(thiophen-2-ylmethylene)amino)benzenesulfonamide (TMABS)	66-123
	Characterisation of the complexes of Fe(III), Ru(III), Co(II), Ni(II), Cu(II), Pd(II), Zn(II), Cd(II) and Hg(II) with N-(thiophen-2-ylmethylidene)-pyridine-4-carbohydrazide (TMPCH)	124-152
	Characterization of the complexes of Fe(III), Ru(III), Co(II), Ni(II), Cu(II), Pd(II), Zn(II), Cd(II) and Hg(II) with N-(thiophen-2-ylmethylidene)-pyrazine-2-carboxamide (TMPCA)	153-184
	References	185-189
Chapter VI	BIOLOGICAL ACTIVITY	190-209
	Introduction	190-192
	Experimental	192-197
	Results	192-206
	Discussion	207
	References	208-209
	SUMMARY	i-vi
List of publications		--