

CONTENTS

	Page No
LIST OF TABLES	i - ii
LIST OF FIGURES	iii- vi
PREFACE	vii - xiii
CHAPTER I : THEORETICAL PRINCIPLES OF POLAROGRAPHY 1-43	
Section i General principles	1-22
Section ii Reversible electrode reactions of Metal Complexes at D.M.E	23-28
Deford and Hume Method	29-33
Section iii Irreversible electrode reactions of Metal complexes at D.M.E	34-37
Koutecky Method	37-38
Meites and Israel Method	39-41
REFERENCES :	42-43
CHAPTER II : LITERATURE SURVEY OF SCHIFF BASES	44-80
Section i Chemistry of Schiff Bases	44-50
Section ii Applications of Schiff Bases and their metal complexes	51-57
Section iii Chemistry of AMP	58-61
REFERENCES :	62-80

CHAPTER III	:	SCOPE OF THE STUDY, SYNTHESIS AND CHARACTERISATION OF NEW SCHIFF BASES	81-113
		Section i Scope of the present Study	81-87
		Section ii Synthesis and Characterization of New Schiff Base	88-107
		REFERENCES	: 108-113
CHAPTER IV	:	POLAROGRAPHIC BEHAVIOUR OF CADMIUM INPRESENCE OF FIVE NEW SCHIFF BASES	114-163
		Section I Effect of hydrogen ion concentration	119-124
		Section II Effect of ligand concentration	125-140
		Section III Effect of height of mercury column	141-146
		Section IV Effect of metal ion concentration	147-162
		REFERENCES	: 163
CHAPTER V	:	DETERMINATION OF STABILITY CONSTANTS FOR CADMIUM-NEW SCHIFF BASE COMPLEX SYSTEMS	164-192
CHAPTER VI	:	VOLTAMMETRIC STUDIES OF NEW SCHIFF BASES DERIVED FROM AMP	193-206
		Section I Materials and Methods	193-206
		Section II Polarographic Studies of Schiff Bases	207-230
		Section III Cyclic Voltammetric Studies of Schiff Bases	231-241
		REFERENCES	: 242-243
CHAPTER VII	:	BIOLOGICAL EVALUATION OF NEW SCHIFF BASES AND METAL-SCHIFF BASE COMPLEXES	244-256
		REFERENCES	: 257-258

SUMMARY AND CONCLUSIONS

APPENDIX