

CONTENTS

	Page. No
ABSTRACT:	1-17
CHAPTER I: Bronsted acid catalyzed tandem cyclization protocol for the stereoselective total synthesis of obolactone	
Introduction	22-32
Present work	33-42
Experimental Section	43-53
References	54-58
Spectras	
CHAPTER II: Stereoselective total synthesis of antifungal antibiotic PF1163A	
Introduction	59-75
Present work	76-84
Experimental Section	85-95
References	96-98
Spectras	
CHAPTER III: Diastereoselective allylation of iminium ion an easy access to 2,6-disubstituted 3-piperidinol alkaloids	
Introduction	99-105
SECTION A: Short and efficient total synthesis of (+)-deoxoprosopinine	
Present work	106-121
Experimental section	122-129
Spectras	
SECTION B: Studies towards total synthesis of (+)-deoxoprosophylline	
Present work	130-137
Experimental section	138-141
Spectras	
References	142-145