

CONTENTS

C O N T E N T S

1.	INTRODUCTION	1
2.	AIMS AND OBJECTIVES	55
3.	EXPERIMENTAL	57
4.	RESULTS AND DISCUSSION	132
I.	Mesogenic Biphenyl Derivatives	132
II.	Cholesteryl Derivatives	178
III.	Chiral Ester Amides.	214
IV.	New mesogens with typical structural units.	231
V.	Fluorescent mesogenic polymers with chalcone linkage.	236
VI.	Textures of different phases and characterization of smectic phases by miscibility study.	246
VII.	Calorimetric study.	261
5.	SUMMARY	292
6.	REFERENCES	300
7.	RESEARCH PAPERS	331