ACKNOWLEDGEMENTS

This work was carried out under the guidance of Prof. M.B.Rege. I wish to express my sincere thanks to him for his unfailing help and guidance during the research period and in the completion of the thesis.

My sincere thanks are also due to the Head of the Department of Mathematics Prof. H.K.Mukerjee for making the necessary arrangements and providing the necessary facilities.

My sincere thanks are also due to Prof. M.B.Rege, Prof. H.K.Mukerjee, Dr. P.Saikia, Prof. S.S.Khare, Prof. V.Kumar, Prof. S.K.Srivastava, Dr. C.R.Mondal, and Shri S.L.Marbanian for the effort they had put in to give us proper foundation for research during M.Sc courses. Thanks are also due to Dr. R.P.Shukla and Dr. A.K.Das for extending help and co-operation in every possible way.

I would also like to thank my teachers of Lady Keane College Dr. N.J.Deb, Dr. A.B.Chakraborty and Dr. S.Dutta for proper help and guidance during the college days and moral support in the later days.

Some portions of this thesis have been published in Proceedings of the Japan Academy jointly with Prof. M.B.Rege. I am thankful for the valuable co-operation from him.

I also express my deep sense of gratitude to my senoir research colleague Dr. M.Ibemhal Devi for encouragement, valuable advice and moral support.
extended to me during the entire research period. Thanks are also due to Dr. B. Koikarra for moral support and co-operation.

My research colleague Ms Sanghita Dutta has been a constant friend in the days of my research. I would like to take this opportunity to express my sense of gratitude to her. My friends Mr Bipul S. Purkayastha and Dipankar Deb were also very co-operative during the entire period.

I also express my sincere thanks to all the research scholars, M.Sc students and office staff of Mathematics Department for their kind co-operation.

Last but not the least, mention needs to be made of my husband Dr. B. Chhawchharia without whose support and encouragement, I would have never reached the stage of completion.

Finally I would like to thank each member of my family for all the support and co-operation they have given me.

Sima Chhawchharia