I wish to acknowledge my sincere gratitude to my supervisor Dr. Kuntala Patra, Reader, Department of Mathematics, Gauhati University for her constant help, guidance and inspiration during the period of my research works. Without whom this work would not have been possible in the present form.

I am particularly grateful to professor B. P. Chetiya, Department of Mathematics, Gauhati University, for being a constant source of help and encouragement with valuable suggestions throughout. I would like to express my sincere thanks to every member of the teaching staff, Department of Mathematics, Gauhati University for their encouragement and kind co-operation during my study period. I also offer my thanks to Mr. Surya Kanta Das, Department of Mathematics, Gauhati University for assisting me in correctly typing some of my research papers.

I am also thankful to the U. G. C. for providing me partial financial assistance during the period of my research works.

I am grateful to all my friends and well wishers who have encouraged me during the research period.

I would like to express my heartiest thanks to my parents and my younger sister Baby for their unfailing patience and encouragement during the period of my research works.

Finally I would like to extend my sincere thanks to my husband Mr. Khagen Kalita for his encouragement in the last part of my research works.

A special debt of gratitude must go to Mr. Hemanta Kumar Sarma and Mr. Kamal Sarma for their full co-operation in bringing out the thesis in the presentable nice form.

Ms. Gayatree Das