ACKNOWLEDGEMENT

In the beginning I avail the opportunity to acknowledge my heartiest thanks and
gratitude to my supervisor Dr. Binod Chandra Tripathy, Professor and Head, Math-
ematical Sciences Division, Institute of Advanced Study in Science and Technology,
Guwahati-35, without whose guidance and valuable suggestions, it would not have
been possible to carry out my research work and prepare the thesis. He taught me
all the necessary basic concepts and ideas and made the research work possible.

I thank the subsequent Directors, Registrars and employees of IASST, Guwahati for
their help and assistance in carrying my work smoothly.

I thank the subsequent Heads, all the Professors and staff of the Department of
Mathematics, Gauhati University, Guwahati, for their consistent encouragement
during the Ph.D. programme. Also I thank the Vice Chancellor, the Registrar, the
Controller of examinations, the Librarian of K. K. Handique Library, G.U. and all
other staff of Gauhati University for their kind cooperation.

I am thankful to the referees of various journals for their suggestion and comments
which enriched the quality of my research.

I pay gratitude to all my respected teachers who brought me to the present stage. I
thank my friends Heman, Rekha, Gitumoni, Pranab, Monomohan, Nitin and many
others for their help. I am also thankful to Bhuban Saikia, Apurba Kalita and Deva
Nath for their help in different aspects.

I will always remain grateful to my mother in-law Mrs. Usha Mahanta for inspiring
me with her all time physical and mental support. I am also thankful to all my in-
laws particularly Keshabda, Dipu, Apu, Lata, Nani, Hiramoni and other relatives
for their consistent encouragement that helped me a lot to complete the work. I am ever grateful to my parents Durlav Dev Goswami and Mrs. Padmini Goswami, my brothers and sisters Pranjali, Nabarun, Nayanmoni & Runjun and Malabika for their blessings and love. I specially thank my sister Deepanjali and my husband Mr. Nripen Mahanta who helped me a lot at every moment. It would remain incomplete if I do not thank our two kids Raj and Ruchi for creating a suitable, healthy home environment and giving me time for study with their unlimited patience.

Lastly I am thankful to all of them who directly and indirectly helped me out to complete my thesis work.

(Rupanjali Goswami)