ACKNOWLEDGEMENTS

I feel its a great privilege and pleasure to express my sincere thanks and deep sense of gratitude to my guide Prof. D. Soner Nandappa, Department of Mathematics, University of Mysore for his invaluable guidance and encouragement extended by him throughout the period of my research.

I am extremely grateful to Prof. Chandrashekar Adiga, Chairman, Department of Studies in Mathematics, University of Mysore, Mysore for his kind help and advice during my research. I am also thankful to Prof. H.N. Ramaswamy, Prof. D.D. Somashekara, Dr. R. Rangarajan, Dr. K.R. Vasuki, Dr. Veena Mathad, faculties of Department of Studies in Mathematics, University of Mysore, Mysore and office staff Smt. K.S. Geetha and Sri. Sudhakar for their help and co-operation during my research work.

I would like to express my sincere thanks to Prof. E. Sampath Kumar, Prof. S. Bhargava, Prof. B.S. Kiranagi, Prof. Huche Gowda and Prof. Padmavathamman, Senior Professors, Department of Studies in Mathematics, University of Mysore, Mysore for their guidance and encouragement.
I express my heartfelt thanks to all the research scholars of Department of Studies in Mathematics, University of Mysore, Mysore for their discussions and co-operations during my research work.

I wish to record gratitude to family of my guide Smt.N. Vijayalakshmi, Ms. Saritha, Mr. Raghu and Mr. Prashanth for their affection and care shown to me during my visits to the house of my guide for research discussions.

Finally, I express my heartfelt gratitude to all my family members, friends, relatives, principal and staff of Government science college, Hassan for their help, encouragement and moral support in my endeavor.

P.N. Vinay Kumar