ACKNOWLEDGEMENT

I owe a deep sense of gratitude to my Research Supervisor and Guide Dr. C. Selvaraj, Reader, Department of Mathematics, Periyar University, Salem-636011, for his constant encouragement and unrelenting support. I remember his deep friendship as my colleague in the Department of Mathematics, TDMNS College, T.Kallikulam, and the motivation and genuine help rendered at every stage of my Ph.D work. I thank him profusely for spending long hours in intellectual sharing, for tirelessly going through my work to suggest improvement, and for offering rare insights and scholarly counseling.

I thank most sincerely Dr. T. Tamizh Chelvam, Professor and Head, Department of Mathematics, Manonmaniam Sundaranar University, Tirunelveli, for helping me in various ways, as my co-guide and for providing all facilities to work in the university department.

I wish to place on record the unstinting support received from Dr. E. John Jothi Prakash, Principal, TDMNS College, T. Kallikulam, Prof. W. Rabindran John Samuel, Former Head, Department of Mathematics and Prof. S. Jeyamony, Head, Department of Mathematics. I thank them for being a rich source of encouragement.

My heartfelt gratitude goes to my friend Prof. C. Rajian, Department of Mathematics, S.T. Hindu College, Nagercoil, for his willingness to help in many ways and for being a source of strength. I express my special thanks to Dr. A. Meenakshi Sundara Rajan, S.T. Hindu College, Nagercoil, for his inspiration, invaluable advice and guidance.
I genuinely thank Mr. S. Petchimuthu, Research Scholar, Periyar University, Salem, for his help and support.

I am grateful to all my colleagues and friends for their warm enquires and constant encouragement.

I wish to thank my wife Dr. C. Jespin Ida and children Tina and Tiju for their interest, understanding, thoughtfulness and affection.

I feel immensely indebted to my elderly parents Mrs. and Mr. A. Raphael and my parents –in-law Mrs. and Mr. D. Cruz Muthu, for their love and prayers.

I owe a lot to UGC for providing an opportunity to do research under FDP.

I also thank Dr. P.S.Raja, Department of Mathematics, Little Flower Hr. Sec. School, Salem, for the neat typing and execution of the thesis with dedication.

Above all, I thank God Almighty for sustaining me with His abundant mercy and grace.

R. George