ACKNOWLEDGEMENT

It is a great opportunity to express my extreme gratefulness and indebtedness to my supervisor Prof. Dr. Rita Choudhury, Head of the Department of Mathematics, Gauhati University, first and foremost, for her valuable guidance and sustained interest in compilation of this thesis.

I express my gratitude to Gauhati University, the pioneer of higher education in Assam for providing me all the necessary research facilities.

I convey my sincere appreciations for the cooperative attitude of all the members of the staff of the Department of Mathematics, Gauhati University, which will always remind me the time.

I gratefully acknowledge my parents Sri Nitai Ch. Das and Smt. Gita Das, of which I consider myself a lucky son, for their constant encouragement.

I am grateful to the honourable principal and the respected teachers of Department of Mathematics of Bajali College, Pathsala, Barpeta, Assam for their kind co-operation.

I shall be failed in my task if I do not acknowledge the inspiration and encouragement that I have always received from my younger brothers Dr Basanta Kumar Das and Mahanta Das.

Finally, I would like to thank and appreciate my wife Mrs. Madhumita Das and my two lovely daughters Suswagata and Shyamalima for their constant support and patience waiting for the ultimate goal.

Place: Gauhati University, Guwahati. (Sajal Kumar Das)

Date: 01.11.2013