ACKNOWLEDGEMENT

Guidance, inspiration and favorable support from the distinguished scholars are essential attributes for a person to cultivate any topics particularly in research work. I am fortunate enough to avail myself of remembering those scholars with gratitude, who from the view of their virtuous text extended their hands to me with all essential helps needed for success in my research in Mathematics. Here I would like to pay my regards to the persons having master depth.

With profound gratitude and reverence I am virtually to acknowledge my indebtedness to my guide Dr. R. N. Bhaumik, Prof. of Mathematics (Retd.) of Tripura University, Emeritus Fellow. As a fortunate one I got him as a teacher, philosopher and guide at every step of walk in the long course of preparation for thesis. It could never be possible on my part to accomplish this task of research had he not stood by me with his affection, inspiration and guidance. I owe to him for his sympathetic step for my preparation of this thesis. I feel proud of having the opportunity of doing my research work under the guidance of such a renowned mathematician like Dr. R. N. Bhaumik. His inspiration, good teaching helped me to acquire a new sense of confidence which ultimately led me to accomplish the research work successfully. I also acknowledge with gratitude the role of Madam Alo Bhaumik wife of my
Acknowledgement

guide Dr. R. N. Bhaumik who always took care with responsibility for inspiring and persuading me to complete the research work with her sweet affection voice.

I acknowledge the sincere support given to me by the faculty members of Department of Mathematics, Tripura University, who provided me necessary guidance and assistance as and when required. I am grateful to each of them. I am also grateful to Prof. A. Mukherjee, Department of Mathematics and Dr. Sarmistha Bhattacharjee (Haldar), Head of the Mathematics Department, Tripura University for providing me all kinds of help and facilities in the Department. I pay my thankful regards to both of them. I also thank my fellow research scholars in the Department of Mathematics, Tripura University.

I am also thankful to Dr. Sabita Roy, Ex-Principal and Dr. Dipanwita Chakraborty (Choudhury), present Principal of Dasharatha Deb Memorial College, Khowai, Tripura West, who off and on encouraged me to proceed with my research work. I present my best compliments to all my colleagues. They all spontaneously encouraged me and helped me to accomplish the research work.

I acknowledge with gratitude the inspiration and encouragement given to me by my mother. Her blessings only made me confident of accomplishing the task. I acknowledge with great pleasure the continuous support and encouragement given to me by my wife in spite of embracing various adversities.
Acknowledgement

Truth is there that without co-operation, sympathy and cordiality of the aforesaid respected personages my dream for the achievement would never come to the front.

In fine, I very sincerely acknowledge with thanks and regards the debts I received from those close or distinct for my research work.

Asish Bhattacharya