ACKNOWLEDGEMENT

It is a great pleasure to express my sincere gratitude and indebtedness to Dr. Sanjib Kumar Datta, Associate Professor, Department of Mathematics, University of Kalyani under whose supervision the entire thesis has been carried out. I owe a lot to him for offering me valuable suggestions for corrections and improvement of the thesis and above all for sufficiently sharing his valuable time with me from his busy and hectic schedule.

I also express my gratefulness to my parents, sister, brother and uncle, aunt especially Asit Kaku and all other family members for their continuous help, inspiration, encouragement and sacrifice lack of which the thesis cannot be executed. I would also like to convey my heartfelt gratitude to my grandmother Gurudasi Mondal and my grandfather Late Gobinda Chandra Mondal for giving me inspiration to pursue research in the subject area.

Further, I am grateful to Dr. Tanmay Biswas for offering me valuable suggestions towards the improvement of the thesis. Moreover, I am thankful to my fellow research scholars of the Department of Mathematics, University of Kalyani for their co-operation in different ways.

I am also thankful to all of my colleague in Dhulauri Rabindra Vidyaniketan High School for giving me mental support to complete my research work.

Furthermore, I am grateful to my respected teacher Prof. Indrajit Lahiri, Department of Mathematics, University of Kalyani for his constant encouragement to prosecute my studies in completing the research work.

I also wish to thank all the faculty members of Department of Mathematics, University of Kalyani for their mental support. In addition, I am thankful to the infrastructural support as provided by the Department of Mathematics, University of Kalyani to commence my research work.
I must also thank to all the authors of various papers and books which have been consulted during the preparation of the thesis. I will remain ever grateful to those who helped me in giving my research work a good finish. The author is also responsible for any possible errors and shortcomings, whatever it may be in the thesis despite the best attempt to make it immaculate.

Dated :February 16, 2015
Kalyani, Nadia.

( Golok Kumar Mondal )