Acknowledgements

First and foremost, all praises are for the Creator, the Almighty and the Greatest on Whom ultimately we all depend for sustenance and guidance. He gave me opportunity, determination and granted capability to proceed successfully. His continuous grace and mercy has been with me throughout my life and, especially, during the period of my present work.

This thesis appears in its current form due to the assistance and guidance of several people and organizations throughout the completion of this research. Such an endeavor is time-consuming and is continuously not possible without persistence, perseverance, assistance, support, and encouragement of some inspiring individuals including my family, supervisor, friends, and my colleagues. I would, therefore, like to offer my sincere thanks to all of them.

I acknowledge, with deep gratitude and appreciation to my Ph.D. supervisor Prof. Noor Mohammad Khan, Aligarh Muslim University, Aligarh, for the inspiration, encouragement, valuable time and guidance given by him. In addition to being an excellent supervisor, he is a man of principles and has immense knowledge of research in general and his subject in particular. I appreciate all his contributions of time, support and ideas.

I am also thankful to Prof. Mursaleen, Chairman, Department of Mathematics, Aligarh Muslim University, Aligarh for providing me all the necessary departmental facilities for the accomplishment of this work. I am grateful to all of my teachers in the department for constructive inspiration.

I am also grateful to my senior colleague Dr. Wajih Ashraf for his advices and his friendly assistance with various problems all the time. I also thank to Subair Kuniyal, and all my seniors and juniors for their constructive guidance, valuable advice and cooperation. Thanks and acknowledgment are also due to my fellow researchers Mr. Ahsan Mahboob and Mr. Firoz Ali for their support and selfless help at every stage of this thesis.
I would be very delightful to acknowledge my friends Dr. Khursheed Jamal Ansari, Mr. Mohammad Shuaib, Dr. Farhat Ali, Dr. Aftab Alam, Dr. Arif Raza, Dr. Rehan Ali, Dr. Ghulam Mohammad, Mr. S. M. Khursheed Ashraf and Dr. Abdul Quddoos for their encouragement, support and, most of all, their humor. All of you kept things light and me smiling.

I can’t finish without thanking my family who survive most for me to get this achievement. I warmly thank my mother Mrs. Shamim Jahan, father Mr. Mohammad Naseer Khan, sister Aafreen Khan, brother Mohammad Aamir Khan, and all my relatives for their emotional and moral support throughout my academic career as well as for their love, patience, encouragement and prayers.

I am thankful to University Grant Commission (UGC) for providing financial assistance as Basic Scientific Research (BSR)-fellowship, Vide Sanction No. F.4-1/2006 (BSR)/7-292/2009 (BSR), dated-13/12/12.

Specially and sincerely, I would like to pay my warmest tribute to my glorious and esteemed institution, Aligarh Muslim University. I am at dearth of words to express indebtedness towards my Alma Mater.

Finally, I would like to thank everybody who was important to the successful realization of this thesis, as well as expressing my apology that I could not mention personally one by one.

Mohammad Aasim Khan
December 2016, India