Acknowledgements
I surrender myself to THE ALMIGHTY ALLAH whose benign benediction has given me required strength, insight and zeal for fulfillments of my ardent desire throughout this work.

I couldn't find words to express my heartfelt gratitude to my supervisor Prof. K.S. Siddiqi, Chairman, Department of Chemistry A.M.U., for his constant encouragement, guidance, keen interest, expert supervision, critical and valuable advice throughout the course of this work. In fact, without his continuous encouragement and help, this study would not have been completed. 'Thanks a lot, Sir... Without you I would not have got an opportunity to write this acknowledgement'.

I also offer my sincere thanks to all my teachers who have been helpful to me throughout my stay in the Department.

I consider myself extremely fortunate to have such wonderful and encouraging parents, Er. Shafiullah Khan and Mrs. Amina Khatoon who have taught me to believe in myself and follow my dreams. I express my heartfelt gratitude to my other family members whose constant encouragement, support, inspiration and blessings have been a motivating force behind the completion of this work.

This thesis is a cumulative effort of many people who are very precious and indispensable part of my life. I am thankful to Shams Tabrez, Lamabam Peter, Mashhood Ras, Shams Shahnawaz, Shahnawaz Khan, Shams Usmani, Shahid, Belal, Tarique, Irshad, Qaisar, Ashraf, Shahabudin, Junaid, Shahnawaz Abbas, Javed Siddiqui, Hamid, Gauhar, Fahad, Mashiurrehman, Owais, Atif and Asad who gave their helping hands and shared my moments of joy and sorrows equally.

I could not have completed this work without the unbelievable support and help rendered by Shahab A.A. Naami, Ayaz, Jamal, Raju, Yusuf, Ahmad, Bashar,
Asim, Shahid, Ziya, Zaki, Qasim, Ajmal, Greesh, Muddassir, Moheman, Abuzar, Hamid Fatima, Mariya, Sadia, Anila, Ruchi, Sana, Shaista, Faraha, Saima, Aiman and Seema. There is no better team around and I will never be able to thank you enough.

Finally, a note of thanks to each and every person who was directly or indirectly involved in this research work. 'Thanks a lot to everyone.....for making me reach this landmark of my life'.

Dated: ...........
Place: Aligarh

(Aftab Aslam Parwaz Khan)