ACKNOWLEDGEMENTS

In the name of Allah (SWT), The Most Gracious and Benevolent.

It is honorific on my behalf to acknowledge my supervisor, Dr. Tahir Ali Khan, Department of Chemistry Aligarh Muslim University, Aligarh for his superfluous supervision through corroborate and authenticate support in bringing up this work in present form. His indebted oracle, unobjectionable counselling, enduring inquisitiveness and affectionate demeanour during accomplishment of this task served as reinforcement to wrap up the present thesis.

I owe my special thanks and pious gratitude to Professor M. Shakir, Department of Chemistry, A. M. U., Aligarh, who gave the initiative and valuable suggestions, which kept my morale persistently high throughout my Ph. D. programme. I also extend my gratitude to the Chairman, Department of Chemistry, A.M.U., Aligarh for providing necessary laboratory facilities. I am thankful to my lab colleagues Hamida, Shama, Poonam, Shakira and Sauban for extending moral support to me. My special thanks are due to Dr. Nishat, whose presence in the lab made it easy for me to perform my work smoothly. I also esteemingly acknowledge the help extended by Mr. Yasser whenever I needed it. I also yearn to express
my special thanks to my friends Huma, Shweta, Ekta, Pratibha, and especially to Shahana for always helping me at every moment.

My sincere thanks are due to the staff of Computer Center particularly the help rendered by Mr. Malik in the processing of the thesis.

At last I am jumbling for words to express my feelings for my family. Heartiest respect and indebtedness are offered to my affectionate Parents, Dadi Ammi, Uncles, Sisters and Brothers who have always been a source of inspiration, encouragement, patience and support during the course of my study. My sincere thanks are also due to Dr. M. Haroon for extending me moral support and encouragement to accelerate completion of this thesis.

Last but not least, I would like to thank typist Mr. Naeem for giving final shape to my thesis.

Shabana Tabassum
(Shabana Tabassum)