ACKNOWLEDGEMENT

As I start penning these final words, I take the opportunity to express my sincerest thanks and gratitude to many people.

First of all, I wish to express my humble thanks to the ALMIGHTY for guiding me all the time, providing strength and courage to go through this challenging task till it lasted. Then follows my sincere and heartfelt gratitude to my esteemed supervisor, Prof. Neelam Seedher, Department of Chemistry and Centre of Advance Studies in Chemistry, Panjab University, Chandigarh. I face a tremendous paucity of words that are required to describe my deep sense of indebtedness, gratitude, emotions, pride and a rare privilege to work under her guidance. Her skillful insight, dedication, most precious guidance, tireless efforts and ceaseless motivation led to the successful culmination of this research work.

I am grateful to Prof. S. K. Mehta, Chairman, Department of Chemistry, Panjab University, Chandigarh and ex-chairmen; Prof. Paramjit Singh, Prof. M. L. Sharma, Prof G. L. Kad, Prof. D. S. Gill and Prof. Ramesh Kapoor for providing me the requisite laboratory facilities.

I also thank Sh. Joginder Singh, ex-librarian, Department of Chemistry, Panjab University, Chandigarh for the guidance and encouragement all the times. The technical staff comprising of Mr. V. K. Sachdeva, Mr. Umang Angrish, Mr. S. K. Saini, Trilochanji and Onkarji also deserve a special appreciation.

I express my sincere thanks and regards to my colleagues Mrs. Sonu Kapoor and Mrs. Pooja Agarwal for providing me a helpful, co-operative, suggestive and learning atmosphere saturated with moral support. I am also thankful to the previous M. Sc. student; Amninder Kaur and current M. Sc. students; Isha Soni and Arshdeep Kaur for their kind co-operation and help at all times.
I owe a special gratitude to Dr. K. K. Talwar, Director, PGIMER, Chandigarh for co-operation bestowed by him at certain stages of this work. I also thank Dr. Yash Paul Sharma, Head Department of Cardiology, PGIMER, Chandigarh and Dr. K. K. Talwar and Dr. Anil Grover; ex-Head Department of Cardiology, PGIMER, Chandigarh for the timely co-operation shown at every hour of need. My special thanks are due to Mr. Mukesh Sharma, present technical In charge, non-invasive laboratories and Mr. B. R. Chaudhary and Mr. A. K. Kaul; ex-In charge, non-invasive laboratories for their invaluable advices and help. I sincerely thank my all colleagues for their co-ordinated help and joyful company.

I express my debt of profound gratitude to Mr. Fateh Singh who was always there to rectify the instrument whenever it went wrong. I also thank Mr. Kuldeep Singh for his assistance in keeping the instrument in working condition.

I must place on records a sense of appreciation for Mr. Pradeep Singla who helped me a lot in the procurement of drugs.

I am grateful to the eternal blessings of my parents-in-law. The instrumental role of my father-in-law, Mr. V. K. Gandotra also draws a great applaud.

The love, valuable suggestions, emotional and understanding support provided by my husband; Mr. Aman Gandotra, was a constant inspiration during the present endeavor. When my enthusiasm waned, he helped me in getting out of it, a fact that can be paid back in feelings and not in words. For him, I can just say that he complemented me.

Despite my name being Mamta, I deprived my newly born daughter, Diya, from my heart full of “MAMTA” and gave time to this project of mine.
I sincerely thank my little angel for her great patience, love and smiling face which
has been a source of lively inspiration for me during the challenging moments.

The words at my command are inadequate both in form and spirit while
expressing my inner feelings of indebtedness for the unconditional love, good wishes,
support, understanding, constant encouragement and lively inspiration provided to
me by my parents who have always stood by me. I have seen self-negation
personified in my parents. Special thanks to my mom; Mrs. Radha for always being
there in an hour of need. The confidence shown in me by my father, Mr. Sham Lal,
enabled me to achieve this goal.

I thank almighty for giving me such a wonderful, supportive, understanding,
caring and loving elder sister, Kajini. I shall always remain indebted to her for her
blessings, emotional and moral support and inspiration which pushed me to complete
the present work. I don’t find words to express my thanks and love for my little
nephew Priyam, who, besides his age has been a constant source of help for me at all
times. Had he not been there to look after my little daughter during my absence, it
could not have been possible for me to accomplish this work with so much ease.
Thanks Priyam, for your entire support and help.

I express my special thanks to my brothers; Ajay and Sandeep for their
blessings, emotional support and inspiration which pushed me to complete this piece
of work. I also thank my bhabhi, Mrs. Richa for her love and cheering me up in
every aspect of my life in general and this work in particular. How can I forget my
niece; Ginni; whose ever smiling face brought me out whenever I was in low moods.