Acknowledgments

At the outset, I bow before the Almighty for his countless blessings and thank for enabling me to complete my thesis work with success and pray that he always shows his blessings to guide me to choose the righteous path.

A journey is easier when we travel together. During my research work I have been accompanied and supported by many people. It is a pleasant aspect that I now have the opportunity to acknowledge with sincere respect, my deep sense of gratitude for all those who have been instrumental in bringing this thesis to completion.

I invariably feel short of words to express my heartfelt gratitude and deep indebtedness to Dr. Shaukath Ara Khanum, my supervising guide for her efficient guidance through the awesome path of research with great patience. Her constant encouragements, fruitful discussions, valuable suggestions at different stages were really a great inspiration and sisterly affection that I received from her throughout my tenure as a research student. She is truly a “Guru” for me in the calmness of mind, hard work and patience towards others.

Words are inadequate to express my gratitude to those whom I deeply love, respect and admire, and whom I am dedicating this thesis to My mom, dad, sister, brothers and beloved friend, for the ease and beauty of their character, their solid trust and patience, and for the most precious thing they have given me their unconditional love. I am thankful to all for their endless support.

I recall with gratitude the selfless help and involvement of my lab mates my friends Lakshmi Ranganatha and Prashanth who has always with me at different stages of my work helping me in all situations. I thank them whole heartedly with love and respect. I am also grateful to my friends Vasantha Kumar B C, Asha, Naveen,
Guru, Girish, Mohammed, Zabi and Najma who gave me support and reassurance in different ways.

A special thanks to everyone who helped me to carry out the biological evaluation of my synthesized compounds. Associate professor Noor Fatima Khanum, Department of Food Science and Nutrition, Maharani’s Science College for Women, Mysore. Rekha N D, Department of studies in Biotechnology, JSS college of Arts, commerce and science. Mysore. Dr. Farhan Zameer and Raghavendra Hegdekatte, Mahajana Life Science Research Laboratory, Department of Biotechnology, Microbiology and Biochemistry, Mysore. Further, I would like to thank principal, Yuvaraja’s College Mysore for providing us research lab for carrying out our research work and teaching and non-teaching staff of Yuvaraja’s College Mysore, Mysore.

I would like to express my deep gratitude and heartfelt thanks to the management of D. Banumaiah’s educational institute for permitting to do my research work. I am grateful to teaching and non-teaching staff of D. Banumaiah’s pu science college for all the support extended. Also am thankful to Dr. Habiba Shahanaz, Principal, Farooquia Girls’ pu college, my friends Effath and Fahmeeda for encouraging me to do my research work.

Further, I would like to thank DOS chairman, BOS chairman, and teaching and non-teaching staff members of Department of studies in chemistry, Manasagangothri, University of Mysore, Mysore.

Lastly I would like to thank each and every one of them who helped me directly or indirectly during this wonderful and lots of experience gaining journey.

Bushra Begum A