Acknowledgement

I would like to express my salutation to God for giving me the confidence and moral boost to successful completion of this thesis. Numerous people have been instrumental in enabling me to give a concrete shape to this thesis. However, I must mention the names of few people who have made catalytic impact on the development of this thesis.

First and foremost, I would like to acknowledge the continuous encouragement and help received from my guide Prof. H. V. Dedania. I have learnt mathematics as well as many other things from him. I am thankful to Prof. A. B. Patel, former Head, for providing necessary facilities at the department. I am also grateful to Prof. S. J. Bhat for reading my papers and thesis critically and giving useful suggestions.

My special thanks to Dr. P. A. Dabhi, Dr. S. J. Ghevariya and Mr. J. M. Patel. They helped me since M.Sc. to solve problems of mathematics and Latex. I humbly thank to my M.Sc. teachers Prof. R. D. Mehta, Dr. G. M. Daheri, Prof. A. H. Hasmani, Dr. D. J. Karia and Dr. H. S. Mehta for moral support. I would like to thank Dr. R. P. Bhatt (Principal) and my college teachers Mr. M. J. Nagrecha (Head), Smt. J. B. Paradva, Mr. R. R. Ram and Smt. N. K. Rangolia at Bahauddin Science College, Junagadh. I extend my thanks to Dipti, Mahavir, Manish, Milan, Rakshit, Savan, Yogita and other Ph.D. students of the department for discussing mathematics fruitfully with me. I am also thankful to the UGC, New Delhi for research fellowship.

I thanks with deep gratitude to my family for constant encouragement that led me to go ahead in my career. I am indebted infinitely to care, support and trust being shown by TWINKAL.

Date : May 7, 2016 Hiten Jayantilal Kanani