

A C K N O W L E D G E M E N T

It is my great pleasure to record my sincere gratitude to **Dr. M. S. Chaudhary**, Professor, Department of Mathematics, Shivaji University, Kolhapur, for his inspiring guidance, and been supervision during the preparation on of present dissertation for the award of **Master of Philosophy**.

I am highly indebted to Prof. **G. G. Asagekar**, Head and Prof. **H. V. Kumbhojkar**, Former Head, Department of Mathematics, Shivaji University, Kolhapur, for his benign encouragement and providing me all possible facilities available in the department. I wish to use this opportunity to express my greatest sense of gratitude to all the teaching and non-teaching staff members of Department of Mathematics, Shivaji University, Kolhapur, for their generous co-operation in completing my work.

I must thank **U. G. C.** for awarding me teacher fellowship and their by financial assistance. I deem my present duty to offer thanks to the authorities of Rayat Shikshan Sanstha, Satara and Principal **T. E. Shelake**, R. B. N. B. College, Shrirampur, for granting me study leave and showing keen interest in my work.

I wish to use this opportunity to express my greatest sense of gratitude to **Dr. T. B. Jagtap**, Head, Department of Mathematics, R. B. N. B. College, Shrirampur and my all colleague of R. B. N. B. College, Shrirampur. I am greatly indebted to my friends **Prof. S. A. Morye.**, **Shri. M. K. Nikam.**, for useful suggestions and fruitful discussion which have been of great service to me.

I am very much thankful to the Librarians of Library of **R. B. N. B. College, Shrirampur, Ahmednagar** and **Barr. Balasaheb Khardekar Library, Shivaji University, Kolhapur**, for providing me Library facilities.

I feel paucity of words in expressing my infinite indebtedness and regards for the blessing of my parents **Shri Ganpati N. Andhare** and **Sou. Bhamabai G. Andhare**, whose love, motivation and constant encouragement helped me in the successful completion of this task.

Last but not the least, I am also expressing indebtedness to my beloved wife **Sou. Vijaya Andhare.**, and children **Samiksha & Pratiksha** and **family members**, whose affection and moral support are the base of my every success.

P. G. ANDHARE.