ACKNOWLEDGEMENTS

I have the immense pleasure to express my sincere indebtedness to my guide Dr.A.P.Singh, Department of Mathematics, Shivaji University, Kolhapur for his constant encouragement, invaluable help and able guidance throughout the preparation of this Dissertation.

I am extremely grateful to Mrs. Singh because she gave me a behaviour as a family member.

I am thankful to Dr. L.Radhakrishna, Professor and Head of the Department of Mathematics, Shivaji University. Kolhapur, for providing departmental facilities. I am also thankful to teaching and non-teaching staff of the Mathematics Department of Shivaji University for their kind co-operation during the period of the present work.

It is my pleasant duty to thank Principal and Head of Mathematics Department of Shree Warana Mahavidyalaya, Warananagar for numerous official sanctions.

I may be failing in my duty, if I do not put on record my deepest gratitude to my affectionate parents Shri and Sou M.G.Patil, my sister and brother-in-law Shri and Sou. S.S.Patil and elder brother Subhash who

(iv)

tenderly looked after everybody at home to let me devotedly pursue the knowledge of Mathematics.

I am also thankful to Prof.S.B.Chougale and Prof. Miss A.A.Bhosale of Mathematics Department of Tatyasaheb Kore Institute of Engineering and Technology, Warananagar for helping me in preparing this dissertation.

I am grateful to my friends Shrì P.B.Mane and Shri P.K.Patil for giving me the encouragement in preparing this dissertation.

Finally, I thank Shri Kumbhar for his neat, accurate and quick typing.

(P. M. Partil)

000