ACKNOWLEDGEMENT

At the outset I would like to express my sincere gratitude to all who have supported me on the course of my work. My deepest of gratitude to my teacher and supervisor Prof. H. K. Pathak (H.O.D) S.o.S in Mathematics Pt. Ravishankar Shukala University Raipur, for his valuable suggestions and insight without which it would not have been possible for me successfully complete this thesis. I find myself short of words to express my gratitude to him.

I would like to thank (Retd) Prof. B. K. Sharma S.o.S in Mathematics Pt. Ravishankar Shukala University Raipur. His insightful comments and contractive criticisms at different stages of my research were thought provoking which helped me focus my ideas and moral support extended from time to time.

I am grateful to Prof. B. S. Thakur S.o.S in Mathematics Pt. Ravishankar Shukala University Raipur for all his support and guidance during the research work.

I would like to cordial thank Dr. M. R. Yadav research assistant S.o.S in Mathematics Pt. Ravishankar Shukala University Raipur for all his coordination during my research work.

I am also thankful to Librarian and all the staff members of Pt.Sundar Lal Sharma Library, Pt.Ravishankar Shukla University, Raipur.

I am also thankful to all the staff members and research scholars of my research center S.o.S in Mathematics Pt. R. S. S. University Raipur for giving me all the information on time and for the many valuable discussions that helped me understand my research area better and complete my work.

I also acknowledge gratefully Principal, Govt. V. Y. T. P.G. Autonomous collage Durg, for his continuous support. I would also like to convey my sincere thanks to my departmental members Prof. M. A. Siddiqui, Prof. Padmawati, Dr. Rakesh Tiwari and Dr.(Smt) Prachi Singh for their timely suggestions and support.

I would like to acknowledge all my friends, relatives and colleagues who have directly or indirectly helped me in completing this work.

Finally I owe my deep sense of gratitude to my dear parents for their blessings. I also acknowledge the patience and support of my wife and children. They all have been a constant source of inspiration for me in my pursuit.

Vinod Kumar Sahu