ACKNOWLEDGEMENT

Indeed, I am very fortunate to have an opportunity to convey my deep sense of gratefulness and indebtedness to my venerated supervisor Dr. A.K. Singh, Professor & Head, Department of Mathematics, H.N.B. Garhwal University, Campus Badshahi Thaul, Tehri Garhwal, for his kindhearted attitude, continuous and well judged supervision, valuable suggestions and positive criticism in various capacities to carry out the research work.

I extend my sincere thanks to Professors K. Yano, E. Kahler, S. Bochner, S. Tachibana, C.E. Weatherburn, U.P. Singh, B.B. Sinha, S.S. Singh, R. Bihari, R.S. Mishra, and several other authors, whose masterpieces and research papers have been used during the preparation of this thesis work.

My sincere thanks are due to Professor S.R. Ansari, Head, Department of Mathematics, H.N.B. Garhwal University Srinagar (Garhwal) for his constant inspiration to work efficiently. I also wish to express my thankfulness to my revered teachers Professor B. Ram, formerly Head, Department of Mathematics, Dr. K.C. Petwal and Dr. U.S. Negi, Lecturer, Department of Mathematics, H.N.B. Garhwal University, Campus Badshahi Thaul, Tehri Garhwal for their blessings and fruitful discussions.

I would like to express my gratitude to respected Guruvani ji, Mrs. Kaushalya Devi for her maternity behaviour during my research work.

It is an appropriate time to extend my hearty thanks to my research colleagues Mr. U.C. Gupta, Mr. Deepak Dobhal and Mr. Sandeep Raghuvanshi for their time to time co-operation and helping nature.

I found myself unable to express the splendid blessings of my grandfather shri Ram Prasad Bahuguna and my parents Smt. Niranjana Devi &
Shri K.D. Bahuguna, who have always inspired me to work hardly for such a higher degree.

I could never refund myself to the constant encouragement and incredible co-operation of my maternal aunty Mrs. Suman Uniyal & maternal Uncle Mr. Amar Uniyal, who have continuously encouraged and motivated me to work for this D. Phil degree. My hearty thanks are also due to my Buwa ji Mrs. Subodhani Bijlwan, Kamla Uniyal and Mama ji Mr. R.P. Bijlwan, B.P. Uniyal for their regular inspirations and helping in all the possible ways with their best efforts.

My special thanks are also due to my grand mother in law smt. Lakshmi Uniyal, grand father in law shri K.K. Uniyal, grnand father shri R.P. Bahuguna, shri H.G. Bahuguna for their blessing and co-operations. I also extend my thanks and appreciations to my all uncle specially Mr. V.C. Bahuguna, M.C. Bahuguna, A. Bahuguna, S. P. Bahuguna, B.D. Bahuguna, I.D. Bahuguna, P. Bahuguna and all family members and relatives, whose consistent inspirations and sensible discussion prompted me to work for such an exciting field of research.

I wish to express my thanks to my loving younger sister Ms. Rashmi Bahuguna and Brother Mr. Pradeep Bahuguna for their timely serving.

At the last but not least, I would like to extend my thanks to Mr. Shailendra Dangwal, computer job work, Badshahi Thaul, who has carefully completed the printing work of this thesis with his best efforts.

DATED: October 22, 2007 (SANDEEP KUMAR)
PLACE: Badshahi Thaul (TEHRI GARHVAL)