Acknowledgements

I thank to The Almighty who is being with me and shower His blessing and grace towards me in all walks of my life.

I express my sincere gratitude to my respected parents Smt. Sita Manglesh and Sh. Kamal Manglesh for giving me sound education. Both of you work hard to make my future, even in the unfavourable conditions. Your efforts to see me successful in my life cannot be quantified and words of mouth are not adequate to appreciate you. However, in my own little way I say “Thank you Mummy-Papa, you are the driving force behind all my achievements”.

“A teacher affects eternity; we can never tell where his influence stops.”

I have great pleasure in expressing my cordial thanks and indebtedness to Dr. Madan Gopal Gorla, Professor, Department of Mathematics and Statistics and Dean Faculty of Physical Sciences, Himachal Pradesh University, Shimla, under whose supervision and helpful attitude the present work could be carried out. I have been benefited in several ways through his constant encouragement. The frequent consultation, constant guidance and concrete suggestions enable me to overcome all obscurity.

I specially want to thank you Sir and Madam, Dr. (Mrs.) Kiran Pehka, Professor, ASC, Himachal Pradesh University, Shimla for being my guardian and for blessing, caring and advising me like your child.

I am grateful to Prof. (Mrs.) Veena Sharma, Chairperson, Department of Mathematics and Statistics for providing all the facilities to carry this research work.

The award of Basic Science Research Fellowship from UGC-SAP is gratefully acknowledged.
I am obliged to Prof. K. D. Singh, ICOEOL, Himachal Pradesh University for extending his help. I am also thankful to all the teachers of Department of Mathematics and Statistics for their encouraging words.

I owe a lot to Mr. Rajeev Kumar, without whose active support, care, affection and perpetual inspiration it would have been impossible to complete this work to the present form. Thank you for being with me in every situation.

Let me add colours to this acknowledgment by thanking my sisters Pooja, Ambika, brother Shubham, jija ji Mr. Rohit Kaushal, niece Shahira and all my relatives for their love, prayer, support, care and encouraging words that certainly acted as a paddle and propelled me to have a smooth sail in my academics.

I am also thankful to Shavnam Di, Radhe Shyam, Asha Singh and Sanjeev Kumar for helping me in my research work.

These acknowledgements would be incomplete if I do not thank Reena Di, Jeevan, Renu, Nishu, Shivani, Neelam, Madhu, Nitika and Ranjna for making a homely environment in hostel and for the beautiful moments we spend together during these years.

I am thankful to all the research scholars and non teaching staff of Department of Mathematics and Statistics for their co-operation.

I would like to thank the learned referees of various journals for their remarks and valuable suggestions, which were of immense help in improving the work.

Last but not the least; I am highly thankful to those who helped me directly or indirectly during the course of this research work.

Aarti Manglesh