ACKNOWLEDGEMENT

Many individuals contributed in several ways to make this thesis possible. The short space here is never enough to express properly my acknowledgements to all of them. Still, I would like to express my gratitude to a few individuals.

It gives me an immense pleasure to express my gratitude and indebtedness to my Supervisor Dr. Sudhir Kumar, Reader, Department of Mathematics, S.D. (P.G.) College, Muzaffarnagar. He introduced the topic to me and also gave me valuable suggestions, encouragement and continuous guidance during each and every phase of my research work.

I would also like to thank Dr. Dinesh Kumar, Principal and Dr. Arun Kumar, HOD, Mathematics, S.D. (P.G.) College, Muzaffarnagar for providing all the necessary facilities and suggestions for completion of this work.

I am highly thankful to Dr. S. R. Singh, Department of Mathematics, Devnagri Postgraduate College, Meerut, Dr. Pardeep Kumar, Department of Mathematics, ICDEOL, Himachal Pradesh University, Summer-Hill, Shimla and Dr. A. K. Agarwal, Department of Mathematics, Jaypee Institute of Information Technology University, Noida for their nice cooperation for completion of this work.

I am also thankful to Dr. Sanjeev Mittal and Mrs. Reena Mittal for their nice cooperation to complete this work.

My indebtedness is also due to Prof. Govind Prasad (Retd. from IIT Roorkee), Prof. M. C. Bhandari (Retd. from IIT Kanpur), Department of Mathematics, Dehradun Institute of Technology, Dehradun for their nice cooperation to complete this work.

Thanks are also due to my friends Dr. Mukesh Kumar, Dr. Satish Kumar, Mr. Shishpal Singh, Mr. Amit Tomar, Mr. Vikrant and Mr. Aftab Alam with whom I have had fruitful discussion and exchange of ideas on several occasions. I have great pleasure in expressing my deep sense of gratitude and indebtedness to the members of
my family without whose blessings and co-operation this work would not have been possible.

I like to express my thanks to Mr. Sandeep Jain (Software Applications, Roorkee) for excellent typesetting of the thesis.

Above all, I am thankful to Almighty God by whose grace I am able to complete this difficult task.

(VIVEK KUMAR)
M.Phil, NET (CSIR)