Acknowledgement

I hereby take this opportunity to express my deep sense of gratitude to my supervisor, Dr. S. K. Mishra, Principal, D. B. S. College, Kanpur for his invaluable supervision, dedication and continuous encouragement through this research work. It is his complimentary contribution which made it possible to bring all the research work in the present form with the schedule.

I express my indebtedness and sincere thanks to Dr. S. S. Kushwaha Vice Chancellor, Kashi Vidhyapeeth Varanasi for constant encouragement, stimulating discussion and sustained interest throughout the phase of this work. In fact his nice behaviour and well informed ideas formed the inspiration to do level best.

I would also like to acknowledge my deep sense of gratitude to Dr. S. K. Saxena, H.O.D. Physics, D.B.S. College Kanpur for his inspiration and providing necessary facilities.

I am also grateful to Dr. K. K. Srivastava and Dr. Vikas Mishra, Reader, Dept. of Physics D.B.S. College Kanpur for their soft words, continuous encouragement, a constructive criticism and moral support towards achieving academic excellence.

I express my sincere thanks to my seniors Dr. Prakash Mishra and Sanjay Kumar Kushwaha who have helped me a lot in my ways towards completing the thesis.
The thesis would not have assumed its form without all type of willing and ungrudging roles played by my parents Sri Raj Kishore Tripathi and Smt. Girija Tripathi and I am also affectionately very much greatful to my husband Mr. Alok Pandey who has always motivated me to achieve high academic values. His inspiring words lifted my spirit on countless occasions.

I am also very much thankful to my younger brother Abhishek, younger sister Priya and my brother in law Anurag.

No words of thanks can be enough to holy God, holy omnipotent and holy immortal who remains symphethic during my hard days.

Last but no way least, I would be failing in my duty if I did not thank Mrs. Mini Srivastava for excellent typing of the thesis at such a short notice. I appreciate the sincere help received from Mrs. Mini Srivastava in the preparation of Computer programmes.

Date 30 November 2006

(Chhavi Tripathi)