Acknowledgements

I am thankful to Almighty, whose bounteous blessings enabled me to perceive and pursue higher ideals of life, who has given me the abilities to do the sheer hardwork and enthusiasm to perform well.

I would like to express a deep sense of gratitude to my supervisor, Dr. Sukhwinder Singh Billing, Professor and Head, Department of Mathematics, Sri Guru Granth Sahib World University, for his continuous guidance, motivation and support throughout my research. Indeed, his constructive criticism, constant inspiration and encouragement enabled me to complete this work smoothly and effectively.

I pay my thanks to the authorities of Sri Guru Granth Sahib World University, Sri Fatehgarh Sahib, Punjab, India, for providing the necessary facilities to carry out my research work.

My appreciation also goes to my beloved family for blessing me. My heartfelt gratitude goes to my husband, Dr Tejinder Pal Singh Brar for his invaluable support to the completion of the work.

Finally, I would like to dedicate this work to my daughter Kaureen Brar.

(Richa Brar) 29.6.18

Department of Mathematics
Sri Guru Granth Sahib World University
Fatehgarh Sahib-140407, Punjab, India.