

Acknowledgements

First and foremost, I offer my sincere gratitude to my supervisor Prof. Debajit Hazarika for his precious proposals, continuous supportive gestures and for being an infinite source of motivation and inspiration.

It is my privilege to acknowledge the facilities provided at the Department of Mathematical Sciences, Tezpur University.

I am indeed grateful to all the faculty members of the Department of Mathematical Sciences, Tezpur University for their valuable suggestions and advice. Special thanks to my Doctoral Committee Members Prof. N. D. Baruah, Dr. D. K. Basnet, Head of the Department Prof. Munmun Hazarika and previous Head Dr. B.P. Sarmah for their co-operation and support.

I would like to thank Prof. Helen K. Saikia and Prof. Hemanta K. Sarma, Gauhati University for their encouragement during my PhD years.

I gratefully acknowledge the financial support received from the Department of Science and Technology (DST), Government of India for INSPIRE fellowship during the period May, 2013 to July, 2017. I also acknowledge the receipt of Institutional fellowship during the period February to April, 2013 from Tezpur University.

I would like to thank Dr. Lakhi Prasad Hazarika, Principal and all my colleagues at PDUAM-Dalgaon for their help and cooperations.

I would like to thank Gayatri ba, Surya da, Somnath da, Pearl ba, Pallabi ba, Jayanta da, Zakir da, Suparna ba, Junali, Kuldeep, Deepak, Dimpal da, Momina ba, Iftikar da, Shyamalima ba, Nilufar, Parama, Subhajit, Ajay for their wishes and making my TU days memorable.

Finally, I appreciate all of the love and blessings from Maa, Deta, Sahumaa, Sahur-deuta, Moina ba, Tulu ba, Bhindos, Munu, Jaydeep, Aijoni ba, Gitu ba, Bapdhan Da, Dadu da, Binoy Khura, Rani Khuri, Jethai, Jethu. I am in debt to my husband for his continuous support and never ending faith in me.

Date:

Place:

(Mami Sharma)