ACKNOWLEDGEMENT

ŝ

I wish to express my deep sense of gratitude to Dr. S. R. Kulkarni, Reader, Department of Statistics, Shivaji University, Folhapur, for his valuable guidence, unfailing patience and constant encouragement during the course of this dissertation.

I am very much greatful to Dr. M.S. Prasad, former Head, Department of Statistics and Dr. R. N. Rattihalli, Head of the Department of Statistics, Shivaji University, Kolhapur, for valuable suggestions and co-operation.

i am greatful to Shri. V. M. Deshmukh, Principal, Mudhoji College. Phaltan. for deputing me for M. Phil course. I am also greatful to Shri. O. G. Kulkarni, Head, Department of Statistics, Nudhoji College. Phaltan, for inspiring me to complete M. Phil. course.

I am greatful to Dr. B. V. Dhandra, Dr. D. T. Shirke, and Mrs. H. V. Kulkarni, for their excellent teaching of the course worl and time to time valuable discussion I had with them during the M. Phil. course.

I am very much thankful to my best friend Mr. M. R. Soni, whe helped me beyond his limit and forced me to continue the work with maximum efficiency. I also wish to thank all my friends in the department for their co-operation and help throughout.

I thank to non teaching staff of the Department of Statistics. for their kind co-operation.

I am greatful to my parents. wife and other family members for their co-operation and encouragement during the course work.

Above all I must thank the ALMIGHTY without whose grace nothing is possible for me.

June, 1995.

1

Mukund Parasharam Gadre.

ŧ

1