I am deeply indebted to Late Professor C.G. Khatri for suggesting and encouraging me in carrying out this research work at the department of Statistics of Gujarat University. His enthusiastic support and guidance, and his constructive criticism in presentation of the materials have been a constant aid in completing this thesis. This thesis could not have been completed in time in the present form unless Dr. A.V. Gajjar had critically read the entire manuscript.

I express my sincere sense of gratitude towards all my family members who constantly encouraged and inspired me in completing this thesis. At this juncture, I would like to mention particularly the endearing and sincere support from Bapuji, husband Dinu Bhavsar, his parents and my parents.

....contd.
I am grateful to Dr. Vina Vani for encouraging me in the absence of my Ph.D. guide Late Professor C.G. Khatri and sincere thanks are due to Professor Madhavan for his help and support. I also thank Mr. P. Rajagopalan for his painstaking effort in typing this thesis. Lastly, my thanks are also due to Shri Kiran Chudgar for his timely assistance in completing this assignment.

CHETNA BHAVSAR