Acknowledgements

I owe debts of gratitude to

Prof. S. N. Tandon, my guide and mentor, *for lighting up every dark avenue I encountered, but always letting me go*;

Ranjan, *for struggling with me to make IMPOL a reality*;

Arvind, Das, Dhananjay, Manjiri, Pravin and Vilas *for making me feel at home at work*;

Paddy, *for being there always to tell me hitam from priyam*;

Shobha, *for being Aayi*;

all IUCAAns, *for making life here pleasant and memorable*;

My special thanks to Sen, who worked on this project in its initial stages. I also thank the Department of Science and Technology for financial support for the project, the University Grants Commission for the research fellowship.

There are many friends who shared my happy and sad moments with me. I do not know how to thank them.