Acknowledgements

It was indeed a proud privilege to be a student of Dr. M. David Department of Zoology, Karnataka University's, Karnataka Science College, Dharwad. It was a sheer pleasure and my good fortune to study under his guidance, who apart being a mentor was a source of constant encouragement throughout the study. His inexhaustible knowledge and unfailing support in his characteristic fashion have helped me in preparation this thesis from its infancy to the final stage. His ever encouraging attitude and valuable suggestion throughout the study were source of inspiration and appreciation. My head bows in respect for his knowledge.

I extend my deep sense of gratitude to Dr. A.A.Hooli (HOD) and to my teachers Prof. K.B.Karale, Dr.(Smt) N.V.Biradar, Dr.(Smt) A.S.Bellad, Dr.(Smt) M.S.Nayak and Dr. C.B.Ganesh Dept. of Zoology, Karnataka Science College, Dharwad for their inspiration and encouragement.

I sincerely thank Dr. K. Pancharatna, chairman Department of Studies in Zoology, and Prof. B. A. Shanbhag, Prof. R. Nazeer Ahmed, Dr. N. Shivanna, Dr. L.S.Inamdar for their kind co-operation and constant encouragement.

I profusely thank all the non teaching staff Shri S.B. Reddar, Miss. Hosamani, Shri. Shanbag and Nazeer, Santosh, Veeresh, Nagappa, Mallikarjun and Basavaraj for their help and cooperation during my research work.

My sincere thanks are due to the generous support of my research colleagues Dr. (Smt.) Vidya Naik, Mr. Ramesh, Mr. Sameer, Mr. Vineet,
Mr. Shivaraj and Shri. Krishnamurthy for their help and cooperation in various ways during the course of the present work.

I acknowledge with great respect, immense pleasure, and rare privilege of my gratitude to my parents and family for their source and force and continuous encouragement during the whole tenure of my academic and research work.

I wish to express my thanks to Shri. Maha Ganapati Computers, Mr. Vinayak and Nagaraj Naik., Dharwad for timely and neat work in bringing out this thesis.

Mr. V. Munaswamy