ACKNOWLEDGEMENTS

I express my sincere gratitude to my research supervisor, Dr. V. Shakunthala, Assistant Professor, Department of Studies in Zoology, University of Mysore, Manasagangotri, Mysore, under whose guidance the present work was carried out. The research work could be completed and thesis could be written only because of her co-operation, unstinted encouragement, constructive criticism and careful supervision. Her concern has always been for my welfare and I am honoured to have studied under her direction.

I am thankful to the present Chairman Prof. V. A. Vijayan and all former Chairpersons of the Department of Studies in Zoology, Prof. S. N. Hegde, Prof. S. R. Ramesh, Prof. Shivabasavaiah, Prof. Prakash R. Naik and Prof. Sadanand M. Yamakanamardi and University of Mysore for their constant encouragement, valuable suggestions and facilities provided. I express my sincere gratitude to the present Chairperson of the Board of Studies, Prof. V. A. Vijayan and previous Chairperson of BoS, Prof. Shivabasavaiah, members of the Doctoral committee, Prof. V. A. Vijayan, Prof. S. N. Hegde, Prof. S. R. Ramesh, Prof. N. B. Ramachandra for their help and support to carry out this research work.

I am indebted to my teacher Prof. S. N. Hegde for his valuable suggestions, unstinted encouragement and kind co-operation.

I am specially thankful to Prof. H. A. Ranganath, NAAC Director, Bangalore.

I am also grateful to all faculty members of the Department of Studies in Zoology, for their help and support directly or indirectly to carry out this research work.
I am grateful to my Parents M. Abdul Khader Shariff and Jameela Begum and Brothers Rizwan Shariff and Burhan Shariff, the research work could be completed and thesis could be written only because of their co-operation, unstinted encouragement.

I express my sincere gratitude to Palaksha, Abolfazl Bayrami and Suchitra, G and all the other research scholars of Department of Studies in Zoology, for their help. I am also thankful to Drosophila Stock Centre, Department of Studies in Zoology, Manasagangotri, for rendering help during my research work.

Further, I wish to thank all non-teaching staffs who have extended their help on many occasions.

I express my gratitude to the University Grant Commission, New Delhi for selecting me under UGC Research Fellowships in Sciences for Meritorious Students Scheme (RFSMS) and providing me an opportunity for doing Ph. D. research work.

Finally I thank one and all, who have helped me directly or indirectly in one way or the other.

Shereen Kouser