Acknowledgement

I wish to express my deep sense of gratitude & indebtedness to Dr. (Mrs ) Maitreyee Das, Ph D. Professor, Department of zoology, Gauhati University, under whose direct supervision and valuable guidance this piece of Research Work has been practically completed. Madam Dr. (Mrs) M. Das has given unstintingly of her time to encourage, and discuss this piece of research work.

I am also grateful to my Co-guide Dr. Jitendra Goswami, Ph. D Professor, Department of physiology, College of veterinary science, Assam Agricultural University, for his valuable guidance and direct supervision for the practical work and preparation of this thesis.

I am grateful to Dr. U.C. Goswami, Ph D, Professor & Head Department of Zoology, Gauhati University, and Dr. P C. Bhattacharjee, Professor & Ex. Head, Department of Zoology, for giving me necessary facility to work in the laboratory of Zoology Department, Gauhati University.

I am grateful to Dr. S. Dey, Ph. D. R.S.I.C., Shillong, Senior Scientific officer for his valuable supervision & help in doing Scanning Electron Microscopy of the experimental method.

I am very much thankful to Dr. Robin Goswami, Prof. College of Veterinary Science, AAU, who helped me in all statistical analysis.

I am also thankful to Dr. T. C. Deka, Prof. Department of Zoology, GU. Dr. H. C. Mahanta, Prof. Department of Zoology, GU. Dr S.C. Dey Prof. Department of Zoology, GU., Dr. (Mrs.) K. Dutta, Reader, Department of Zoology, GU and Dr. G.U. Ahmed, Prof. Department of Bio-Technology, GU for their kind & necessary help in completing the study.

I am also express my grateful thanks to Dr. Utpal Da, Sushil Da and Pulin for their help in different laboratory works without whose guidance some laboratory works would have been incomplete.
I also express my gratitude to Sri. P. Dhing, Principal of Pub Kamrup College, for encouragement during the work.

My acknowledgement column would remain incomplete if I do not express my indebtedness to Sri. S. Deka, Lecturer Pub Kamrup College, Sri K. Sarma, Lecturer Pub Kamrup College and Sri. L. Deka, Lecturer Pub Kamrup College who helped me in many ways during my research work.

I specially express my sincere gratitude to Sri G Goswami, Sri M. Sarma and Sri. J. Sarma for their valuable help.

I would like to use this opportunity to offer my gratitude to my teachers and colleagues of the department of Zoology, Gauhati University for their generous help during the course of my studies.

I have no words to express my gratitude to my parents for providing encouragement and help, all throughout the study period.

Finally, I express my thanks to Technoart who helped me for composing this thesis.

Date: 01-06-2001

Manash Barthakur.