ACKNOWLEDGEMENT

It has been a wonderful experience to work under the king supervision of my revered guide Dr. Patel Nisar G., Head, P. G. and research centre Pratap College, Amalner. I would like to express my sincere thanks and gratitude as he has been remained a constant source of inspiration, active guidance and kind interest for helping me in variety of ways throughout the course of this work as well as giving me extraordinary experience throughout the work.

I would like to thank University Grant Commission, New Delhi for the award of Maulana Azad National Fellowship for minority students (MANF) to me without which the work would not have been possible to carry out.

I thankfully appreciate the encouragement and help rendered by Dr. Patil Y. B. Vice-Principal, Dr. Patil A. S. and Mr. Sarvade R. C. of Pratap College, Amalner, Dr. Mendki M. J. Scientist-D, DRDE, Gwalior and Dr. Momin A. A. Deptt. of Biochemistry, Institute of Medical Sciences and Research, Mayani Dist-Satara.

I am highly indebted to Prof. Dr. M. B. Chavhan, Principal and Prof. Dr. L. A. Patil Ex-Principal, Pratap College, Amalner for providing me excellent laboratory facilities during the tenure of my research work.

I would also like to thank my research colleagues Dr. Wankhedkar P. T., Dr. Mrs. Bhavsar S. S., Mr. Pawara R.H. (RGNF) and Mr. Patel Y. E (H. J. Thim College, Jalgaon).

I heartily acknowledge the co-operation extended by members of non-teaching staff, Mr. Patil B. L., Mr. Patil P. N. and Mr. Wagh G. S. from Deptt. of Zoology.

I would like to affectionately dedicate the work to my family members, elder sister Mrs. Ansari Rukhsana M. and my younger brother Mr. Murtuza Md. Ibrahim for their encouragement and support during the period of my research work.

Finally, I would like to express my deep sense of gratitude to my beloved parents Mr. Mohammad Ibrahim Abdurrehman, Mrs. Rehana Bano Md. Ibrahim and my wife Mrs. Ansari Heena Md. Ismail and my daughter Ansari Sarah Md. Ismail for their unconditional support, never-ending love, encouragement and patience at every step of my study.
I am very thankful to almighty Allah, the most beneficent and merciful for showering blessings on me and having all great people around me who made this period memorable.

Mr. Mohammad Ismail Mohammad Ibrahim