ACKNOWLEDGEMENTS

I express my deep gratitude to Prof. A. L. Siddiqi, Prof. of Biochemistry, Department of Chemistry, Aligarh Muslim University, Aligarh for his guidance, constant encouragements and stimulating discussions throughout the course of this study.

I wish to thank Prof. Wasiur Rahman, Head, Department of Chemistry, Aligarh Muslim University, Aligarh for providing necessary facilities and encouragements.

I especially thank Dr. B.A. Siddiqi, Lecturer, Department of Botany, Aligarh Muslim University, Aligarh for the supply of plant material.

I sincerely thank Drs. A. Salauddin, (Mrs.) A. Ansari, M. Salamuddin, A. Jasim, G. I. Hadi and Habibul Haq for their helpful discussion and interest in the work.

My thanks are also due to Drs. A. Y. Khan, S. Y. Khan, F. R. Khan, Mrs. M. I. Siddiqi, Zafer Ahmad, Altaf Ahmad, B. A. Zaidi, Saad Ahmad, Nasser Saeeduddin, R. Y. Rizvi, R. Bano, S. Malik, R. J. Khan, Mahtab Alam and K. Varsehay for their cooperation and help.

In addition, I appreciate very much the excellent typing of Mrs. A. W. Khan. My thanks are also due to Mr. Saleem for drawing the charts and Mr. Waheed for photographs, Nafia Khan for his valuable technical assistance, Sheer Ahmed and Bapa Lal for help.

Finally I wish to thank University Grants Commission for financial assistance.