Acknowledgement

The researcher expresses her best regard and deep gratitude to her respected supervisor for her valuable guidance, helpful criticism and continuous help throughout the course of study.

She conveys her regard to Dr. (Prof.) P. K. Chakraborty, Dean of Education, Lib. Sc. and Journalism, University of Calcutta. She expresses her deep gratitude to Dr. P. Some and Dr. J. Roy, Reader in Education Calcutta University.

She is glad to express her deep gratitude to Dr. Nemai Maiti, Lecturer in Education, Calcutta University.

She cherishes in her bosom, a boundless regard for Late Dr. S. P. Bhattacharya, Reader in Education, Calcutta University for his valuable suggestions.

She conveys her best regard to Dr. Durgadas Bhattacharya, retired Professor of Education, Kalyani University for his necessary suggestions and advices in her investigation. She also expresses her deep gratitude to Dr. Dulal Mukhopadhyay, Head of the Department of Kalyani University for his kind cooperation.

She is grateful to the Headmasters and Headmistresses and Physical Science teachers of those Institutions for their co-operations in collection of necessary data from the Secondary and Higher Secondary Schools of North 24 Parganas and Nadia district of West Bengal. She expresses her deep love to the students of Class IX of the above mentioned schools for their participation and cooperation for the research work.
The researcher owes a special regard and gratitude to her aspirant father Sri. Nishikanta Debnath and mother Smt. Kusum Debnath and mother-in-law Smt. Kalpana Majumder who always motivate her to reach the highest goal of education. She wants to express my warm thanks to my husband Sri. Ashis Majumder and daughter Jhum for their dedication in helping me to complete the final draft.

The researcher also expresses her deep sense of appreciation to all the research scholars and the librarian of the Department of Education of their constant assistances.

She admits her indebtedness to Mr. Arijit Dutta Roy and Mr. Sanjay Banerjee of DIGITEK COMPUTERS, Barajaguli, Nadia for typing the final draft of the manuscript with much care and attentions. She is also grateful to all the non-teaching staff of the Department of Education, Calcutta University for their assistance at various stages of this study.

She is again indebted to the authors whose books have been consulted and quoted here.

Dated : Kolkata

( SWAPNA DEBNATH )