

PREFACE

The present thesis entitled "A Study of Basic Hypergeometric Functions And Their Applications In Partition Theory And Continued Fractions" embodies the researches carried out by me as a research scholar of Dr. Shafiullah, Reader & Head, Department of Mathematics, Shibli National College, Azamgarh (U.P.).

The thesis consists of six chapters followed by a comprehensive bibliography. A shortened version of thesis incorporates in the following reach papers ;

- 1. Certain transformation formulae for hypergeometric series.*
- 2. Reducibility of double hypergeometric series*
- 3. Certain transformations for Basic Hypergeometric series.*
- 4. Certain Results involving ordinary Hypergeometric series and continued fractions.*
- 5. Certain Partition Theorems*

References to the work of the various authors have been cited in the body of the thesis through numerals in brackets which refer to the number in the bibliography e.g. Agarwal, R.P. [1] refers to the first paper of agarwal, R.P. mentioned in the bibliography.