PREFACE

The present thesis entitled "Certain investigations in the field of generalized q-hypergeometric series" consists of seven chapters followed by a comprehensive bibliography. Following research papers, which have been communicated for publication, are present in different chapters of this thesis.

1- On certain new identities associated with Ramanujan’s modular equations.
2- A remarkable product formula of Ramanujan.
3- A note on Ramanujan’s remarkable product of theta functions.
4- On certain identities associated with Ramanujan’s modular equations.
5- On certain identities involving q-series.
6- On certain q-identities and Bailey’s pair.

References to the work of various authors have been cited in the body of the thesis by numerals in brackets which refer to the number in the bibliography e.g. Berndt [3;(2)] stands for the second formula in the third paper of Berndt mentioned in the bibliography.