

PREFACE

The present dissertation entitled " On some properties of generalized hypergeometric polynomials" is the outcome of the research work done by me in the field of special functions.

The dissertation consists of four chapters, each of which is divided into several sections. Chapter one is introductory and deals with the survey of known material and some useful results required in the development of the work in the subsequent chapters.

In the second chapter a generating function, recurrence relation and differential equation have been studied for the generalized polynomial introduced in chapter one.

Chapters three and four deal with evaluation of some finite and infinite integrals respectively, involving generalized hypergeometric polynomials<sup>and</sup> some expansion formulae have been derived using these integrals.

A triple numbering system is used for the results. For example (1.3.4) means the fourth result of the third section of chapter one. The references are given at the end of the dissertation and are arranged in the alphabetical order. In the text, they have been referred to by putting within rectangular brackets. For example [ 4, P.59 ] means the page fifty-nine of the fourth reference given in the bibliography at the end.