A NEW GENERATING FUNCTION FROM THE VIEW POINT OF CHANGE IN THE NATURE OF RANDOM VARIABLE IN HYPERGEOMETRIC DISTRBUTIONS

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Contrivance of a new generating function, to cope up with the variation in the nature of random variable in hypergeometric distributions, has been the subject of study in the present paper. Bunch differentiation and integral formulae have been also acquired for the function.

Key words:- Hypergeometric distributions / random variable / transcedental functions / bunch formula

1. INTRODUCTION

Statisticians dealing with the theory of exceedances or problems of drawing balls from an urn come across hypergeometric distributions discussed in the book of Johnson and Kotz[2]. In some cases such situations may arise where the random variable assumes values, different from the traditional ones, may be multiples of prime numbers or may involve different powers. To overcome such situations a new type of generating function is required and it has been the reason of genesis of the present paper.

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