

SUMMARY/ ABSTRACT

In this thesis the distributional properties of Generalized Order Statistics has been obtained fro Gumbel Distribution.

Chapter 1 contains a brief introduction of Order Statistics and Generalized Order Statistics along with their uses. The application of Gumbel Distribution is discussed in this chapter. The properties and characteristics of Gumbel Distribution are also discussed.

In Chapter 2, a brief literature review has been discussed about the Generalized Order Statistics.

In chapter 3 of this thesis, the distribution of Generalized Order Statistics for Gumbel Distribution has been obtained for $m = -1$ and for $m \neq -1$. The simple and negative moments of the resulting distributions have been obtained. The Joint Distribution of Generalized Order Statistics has been obtained by the density function of Gumbel Distribution for both cases $m = -1$ and $m \neq -1$.