**Formula Sheet**

**Permutations**

**Combinations**

**Conditional Probability**

**Multiplicative Law of Probability**

**Theorem of Total Probability**

**Probability Mass Function**

**Geometric Distribution**

*Success occurs on or before nth trial:*

**Geometric Distribution Variance and Standard Deviation**

**Hypergeometric Distribution**

**Negative Binomial Probability Distribution**

**Negative Binomial Probability Distribution Variance and Standard Deviation**

**and**