**Formula Sheet**

**Permutations**

**Combinations**

**Conditional Probability**

**Multiplicative Law of Probability**

**Theorem of Total Probability**

**Geometric Distribution**

*Success occurs on or before nth trial:*

**Hypergeometric Distribution**

**Negative Binomial Probability Distribution**

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

**and**

**Normal Distribution**

**Gamma Distribution**

**Beta Distribution**

**Marginal Probability Function**

**and**

**Marginal Density Function**

**and**

**Conditional Density Function**

**Conditional Distribution Function**

**Independent Random Mass Function**

**Independent Random Density Function**

**Split Function**