FORMULA SHEET EXAM 1

MIT 14.30 Spring 2006 HERMAN BENNETT

$$P_{k,n} = \frac{n!}{(n-k)!} \tag{1}$$

$$C_{k,n} = \binom{n}{k} = \frac{n!}{k!(n-k)!} \tag{2}$$

$$P(A_1|B) + P(A_2|B)...+ = 1 (3)$$

$$\sum_{i=1}^{k} P(B|A_i)P(A_i) = P(B)$$
(4)

$$P(A_i|B) = \frac{P(B|A_i)P(A_i)}{\sum_{i=1}^{k} P(B|A_i)P(A_i)}$$
 (5)