1) 
$$P = 0.18$$
;  $h = 100$ ;  $k = 85$   
 $P_h(X=k) = C_h p^k g^{h-k}$   
 $P_{100}(X=85) = \frac{100!}{85!15!} \cdot 0.885.0.2'5 \approx 0.048$ 

2) 
$$P = 0,0004$$
;  $h = 5000$   
 $\lambda = p \cdot h = 2$ ,  $P_m \approx \frac{\lambda^m}{m!} e^{-\lambda}$   
 $P_o \approx \frac{2^o}{0!} e^{-\lambda} \approx 0,135$ ;  $P_a \approx \frac{2^2}{2!} e^{-\lambda} \approx 0,271$ 

3) 
$$h = 144$$
;  $K = 70$   
 $P_{144}(X = 70) = \frac{144!}{70!74!} \cdot 0,5 \stackrel{70}{\cdot} 0,5^{74} \approx 0,0628$ 

Be mer serve (A):  

$$P(A) = \left(\frac{7}{10} \cdot \frac{6}{9}\right) \cdot \left(\frac{9}{11} \cdot \frac{8}{10}\right) \approx 0,305$$

Xorebor ogner MAY Servir (B):

$$P(B) = 1 - P(\overline{B}) = 1 - \left(\frac{3}{70} \cdot \frac{2}{9}\right) \cdot \left(\frac{2}{77} \cdot \frac{1}{70}\right) \approx 0,999$$

$$269 \quad 4000 \quad 6000 \quad 6$$

DBa mara serve (C):

$$P\left(6, 5, 4, 4, 4\right) = \frac{7}{10} \cdot \frac{6}{9} \cdot \frac{2}{11} \cdot \frac{1}{10} \approx 8, 5 \cdot 10^{-3}$$

$$P\left(4, 4, 6, 6\right) = \frac{3}{10} \cdot \frac{2}{9} \cdot \frac{9}{11} \cdot \frac{8}{10} \approx 43, 6 \cdot 10^{-3}$$

$$E_{i} = 094h \quad 1187 \cdot 5$$

 $E_i$  - ognh mer Senoni uz Ruguka i npu gocraba hum gbyx meren  $P(E_1) = 1 - P(4,4) - P(5,6) = 1 - \frac{3}{10} \cdot \frac{2}{5} - \frac{7}{10} \cdot \frac{6}{9} \approx 0,467$   $P(E_1) = 1 - P(4,4) - P(5,6) = 1 - \frac{2}{10} \cdot \frac{1}{10} - \frac{9}{11} \cdot \frac{8}{10} \approx 0,327$   $P(E_1) = P(E_1) P(E_2) \approx 0,153$   $P(C) = P(E_1) P(E_2) \approx 0,153$ 

$$P(c) = P(6,6,4_24_2) + P(4,4_2 6_26_2) + P(E_1 E_2) = (8,5443,64153) \cdot 10 = 0,379$$