01

$$\lambda = 2$$

X

$$= (4)^{6} \times e^{-4} = 0.104$$

6!

$$\begin{array}{lll}
Q_{2} & P = 0.1 \\
Q_{2} & 0.9 \\
N = 10 \\
N = 0.1
\end{array}$$

$$\begin{array}{lll}
S_{2} & (0) & (0.1) & (0.9) = 0.3486 \\
S_{3} & (1.2020.1) = (0.9) & (0.1) & (0.9) = 0.3874 \\
S_{4} & (0.9) & ($$

93

Creometric = (p) (q) 5-1

Dy

(a)
$$b(1;10,0.25) = (pq^{10-1} = (6.25)^{10}(0.75)^{9}$$

$$= 6! \times (0.222)^2 \times (0.6111)^3 \times (0.1667)^1$$
2! x3!x1!

Is not included 07 P(x=x)=h(x)N,n,k)=(k(x)(n-x) Hyper Cremetric (10) (35) = 0.442 = 0-119 Multivariate Hyperheonetric a, = 3 >a,=4, 43=3 > M1=1 > N2=2>N3=2 N=10, N=5 $f(1,2,2;3,4,3,6,5) = {3 \choose 1} {4 \choose 2} {3 \choose 2} = 0.21428$

QU Riverial Distribution N=10 P=0.9 W=0.1 P(x29) = 1-P(x<9) = 1- \(\frac{2-8}{5} \) b(x510,0.9) = 1-0.2639 =0.7361 Multiplication rule on Conditional P(A) = 0.1 P(A') = 0.9 P(B) = 0.8 P(B') = 0.92 P(C)=0.12 191- ("Accepted 1.17 dep) x (Rejected 2nd lop) P(¿) = 088 = (0.9) (0.08) = 0.072 (b) - (Add st) x (Accept 2nd) x (Reg 3rd) = (0.9) (0.92) (0.12) = 0.099

Consider the Events H - husband will note W- wife will vote They P(H) = 0.21 , P(W) = 0.28, P(HNW)=0-15 9) P(HUW) = P(H) + P(W) - P(HNW) = 0.21+0.28-0-15 = 0.34 (b) P(W(H) = P(HNW) = 0.51 = 0.7143 $P(H(W') = P(H \cap W') = 0.06 = 0.0834$ (2) P(w1) = 1-0.28 = 0.72 P(HNW1) = P(H). P(W1) = (0.21) (0.72)=04512

A=LED's defettive

B = Device clarify LED as defective

P(A) =005, PA') =0.95

P(B/A) = 0-78, P(B/A1) = 006

P(B) = P(AnB) + P(A'NB)

= PLA) P(B/A) + P(A) P(B/A)

(200) (co-0) + (8fro) (200)=

- 0.096

0/15

P (MnMnMnM) = 0-1 x0-1 x0-1 x0-1

P (TNHNG'NI') = P (T) x P(H) x P(G) x P(I')

= 0-1 x01 x0-9x0.9

= 0.00gl