DN > no. of consequences an a gease

N~ Poisson (A)

P(M-1/N=1) = p . » P(M=0/N=1) = 1-p

: M/N=1 ~ Bernoulicp)

3 Now suppose N=n & N=R, man means our of

" many earth praces, k have magnitude or easel 5.

: P(M=k | N=N) = n(k pk (1-p)n-k

>> M N= n ~ Binomial (n, p)

PCN=N) = e 1/4

P(m= k, N= n) = P(m-k|n=n)P(N=n)

= n cu b n (1-b) n e - 4 - 4 "

= M5 pu (1-p) n-u e-d dn
winn-wis

= e-y y b c1-by-r

Down , P(N : W) := protocoading of occurrence of m many Earthquakes with magnitude ar count 5 to so was a easinqueres have occured P(N=m) = P(U(N=m, N=n)) = 5 P(N=W, N=N) = 2 e d' p" (1-p) n-m = Pe - 1 0 n-m n m (1-p)n-m

N= 1 (n-m)! = (4p) me-y = 10 m-m); (1-p) m-m ver now = 11 , 12 stangers from 0 to 00 .. P(N=M) = (Ap) m = 1 0 14 1 (1-p) x = (dp) e de e e (1-p) [:.e = 5 mu
n1

= (4b) = xxx-yb = Gb, Gb, Gb, Mi

: M w bossen (db)