UPDF to the runder of computer at this scarpeter have the defect of ~ B(1000010.001) WE(X) = 10000 X 0.001 = 10 8/x) = 10000 X 0.001 X0.499 = I In sayste quantity is four more layor then 100, ne sume X plo) P(X710) = 1-0.583 = 0.417 P(X = 0) = /10000 0.0010.981000 = 4.5/7×10-5 $\begin{cases}
\frac{R(4)=e^{-5t} \cdot (5t)^{k}/k!}{4!} = 0.1755 \\
\frac{R(4)=e^{-5} \cdot 5^{4}}{4!} = 0.1755
\end{cases}$ $\begin{cases}
\frac{R(4)=e^{-5t} \cdot (5t)^{k}/k!}{4!} = 0.1755 \\
\frac{R(4)=e^{-5} \cdot 5^{4}}{4!} = 0.1755
\end{cases}$ $\begin{cases}
\frac{R(4)=e^{-5t} \cdot (5t)^{k}/k!}{4!} = 0.1755 \\
\frac{R(4)=e^{-5} \cdot 5^{4}}{4!} = 0.1755
\end{cases}$ () $P_{k}(0.75) = \frac{e^{-3.75}x_{3.75}k}{k!} E(x) = \sum_{k=0}^{\infty} \frac{e^{-3.75}x_{3.75}k}{x!}$ = 3.75 De -3.75 = 3.75 = 3.75 = 3.75 87. a. $P_{10}(2) = e^{-\frac{108}{88}} = 0.09926$ $P_0(0.5) = 0 e^{-2} \times 2^0 = 0.1353$ c) = 2 at = 4x0.5 = 2 Hence Lealls are expented during then break 72. a) $x \sim H(8, 4, 11) P(x=6) = B(\frac{4}{6})(\frac{7}{2}) = 0.2727$ 1) E(x) = 24 75 4) All X~ NB (2,05) PK=x) = (x+1) 0.5 20.5 = (x+1) 0.52+x f) P(X=2) = 3x 0.5 = 0.1875 c) P(X < 2) = = 0 (x+1) 0+ 20 = 0.6675 d) E(X) = 2x 0.5 = 2 which is made children the fundy expected to have.

oversion wanted X ~ Bin(n @ , 0.6) 2(10,0.6) P(X >6) = \(\frac{10}{0} \) 0.60 04 \(\frac{10}{0} \) 2 0.633/ P(X) = 1.55 P(X) = 1.55·) P(EXE7) = 0.8/10 68 g) / ~ H(b, 72,20) $P(X=2)=h(2;6,12,20)=\frac{12(8)}{(20)}=0.1192$ (D. (X \le 2) = \int \(\lambda \) \(\lambda \) = 0. [373 P(X7,2) = 1-P(x=2)+p(x=2) = 0.9819 C) E(X) = 6x12 = 3.6 V(X) = 19 \$ 6x 12x(1-43) = 4.067 69. X~H(6, 7,12) a, P(x=s)= (3)(5) = 0.1136 P(X=4)21-P(X=5)-P(x=6) = 0.8788 c) $E(x) = \frac{6x7}{12} = 3.5 \ V(x) = \frac{6}{11} \times 3.5 \times (1 - \frac{7}{12}) = 0.7955$ -N(x)=0,8919 P(X < 2608/ UX > 4.3819) = 0,2924 d) -400 is a small ration, we welcome & Goods possability of defectivity which means we assume X~Bull [015, 6.1) P(X < 5) = 000 \$ (15) 0.1' 0.915-12 0.998 (9, a) p(x = 8) = 0.932 - 1) p(x-8) = 0.932 -0.867, z0.065 c) P(95X) = 1-0.932=0.068 d) F(55X58) = 0.932-0440=0.499 a) p(5<X<8) = 0.867-0.616 = 0.251

UPDF $6(3; 8,0.35) = (3/0.35 \times 0.65) = 0.7786 - 6) 6(5; 8,0.35) = (3/0.35 \times 0.65) = 0.7786 - 5 \times 0.6780.9^{3} = 0.2787$ c) P(35×55) = [7] ×00.61× 700.47-1 = 10, 7451 d) $P(1 \le X) = 1 - {9 \choose 0} \times 0.1^{9} \times 0.9^{9} = 0.6126$ 47. a) B(4; 15, 0.3) = 0.515 6) b(4:15,0.3) = 0.5/5-0.297 = 0.218 c) H 6:15, 0.7) = 0.015-0.004 = 0.011 d) P(25 X54), X ~ Bin(15, 0.3) P= 0.515-0.035=0.480 e) P(ZEX) X~ Bin (15, 0.3) P=1-0.035=0.965 1) P(XE1) X~ Bin (15,0.7) P=0.000 g) P(2<X<b) X~ Bin(\$,0.3) P= 6.722 0. -0.127=0.593 48 a. P(XE1) = \(\frac{1}{i}\)(5/3)^{i}[45/2)^{3-i} = 0.8729 1) P(X75) = = (1) - \frac{1}{20}(15)0.05 0.95 5-i 20.0072 c) P(1=X=9) = = [0] (i) 0.05 10.85 3-2 0.7155 d) P(=0) = (25) 0.05° 094 35 = 0.2774 e. E(X)=>5 x0.05=1.75 D(x)=>5 60-05 4095=7.1873