-Dom Arishi -Exercise 3 1) X = the electricity forex fail in argnote village meaning = 11 20 - 3 Pailures evry fail we lerveck; P(X=x)=(e-w)(ux), e=2,71% P (there in I be no failure during a particular neet x=0)=(e-a15)(0.150) 0) P(there will be exactly 2 for wer during alorticular week) = P(x=7) = (e-0,15)(0,152)/21 = (0,00971 to we darigaporticular neet B(R=1)+B(X=2) (e-a15)(150)(01+(e-a15)(151)/11+(e-a,15)(152)/ -0,9995 > 6 Shooting Stops Platleostone)=P(X>1) -0,0000061 : The flob = 0,999999

atmost 2= p(x < 2) $\frac{12^{\circ}e^{-12} + 12^{\circ}e^{-12} + 12^{\circ}e^{-12}}{0!} + \frac{12^{\circ}e^{-12}}{1!} + \frac{12^{\circ}e^{-12}}{2!}$ · 72e-12 85e1 -[0,00052 total (50+40) = 40 Reptersentative out ne have vot choosing 7 out of 90 of which exact/x 3 mest be sensormes : the Prob = 40c3. * 50C7-3 = (98%) (7303e0) 7471375560 2 pleyactix 3 desserts)-0,1600 142506 Distribution of X what & Jenotes xn Bernoulli (0,07 xi Binomial (100,0,07 yn Pascol (1,0,00) to in Bascal (4,0,07

P= Prob of Fairend is 1. Vay in his neighborhood is member of Friends in living in X=10) - 20 p16(1-p)341 12-5) = P(1-P) 5 = (0,3) (0,7) 5 = 0,0504 war P(X=78)=70, P2 (1-P 7620 (1-0) 5 - (0,0467 Pool fot 50001 & hete asked 7 student I'ves in his heipohoso = and I

