4日 概率 長庚大學期中、期末考試答案用紙 学年度 第 學期 中 考 賞 工 系 姓名 河洋彦 学號 かつりのう (1) $f_{\chi}(x) = \frac{(10)^{\chi} \cdot 90^{10-\chi}}{(100)^{10}}$ (1) $F_{\chi}(x) = \frac{(10)^{\chi} \cdot 90^{10-\chi}}{(100)^{10}}$ (1) $F_{\chi}(x) = \frac{(10)^{\chi} \cdot 90^{10-\chi}}{(100)^{10}}$ (10) $F_{\chi}(x$ (3) $\sigma^{2} = E[(x-\mu)^{2}] = \sum_{X} (x-0.049)^{2} \cdot \frac{(10)^{2} \times 90^{10}}{(100)^{10}} = 0.01619$ std [x] = 0.2378 # Ty (Y) = C/2 x C/0-y

(100 # (b) E(Y) = \(\frac{1}{2}\) y. \(\frac{1}{2}\) \(\frac{1}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\ 0 = E[[Y - E(Y)] = E[Y] + Std [Y] = (b) fz(Z) = b* (Z; 5,0.1) [2] (1) fu(w) = P(W;100) = e-100(100) 10 14) E[M] = 100 0= E[(W-100)=] = 500 (M-100) + f(m) dw (3) 14) P(W >120) = 0.0126. H W>120的發生率太小,所以不愿該接受

長庚大學期中、期末考試答案用纸 CA1 Y=ub b= y B(b,u)=b(d=k)=(1/b)bk(1-b)v4c 亲性各 學說 pm p(x=k)= hm n! (1-2) 1-2) 1-2 (26) 1/m h! (1-2) (1-2) 1-20 (1-2) (1-2) (1-2) $e = \lim_{\chi \to \infty} (1 + \frac{1}{\chi})^{\chi} \qquad \chi = -\frac{n}{\chi}$ $\lim_{\eta \to \infty} (1 - \frac{1}{n})^{\eta} = \lim_{\eta \to \infty} (1 + \frac{1}{\chi})^{\chi(1 - \lambda)} = e^{-\lambda}$ L, hm (2) (1) (1) (2k) lim n! (1-2) " (1-2) " (1-2) " (1-2) " (1-2) " (1) (e-2) (1) [3]"P(X210) = \(\frac{10}{20}\) b(X; 10,0.05) - \(\frac{9}{20}\) (X; 10,0.05) = 0.0 2819 12) I reject this batch of products because 0.02819 is small than 0.05 發生機率很小