長庚大學期中、期末考試答案用紙	科目機牛
學年度第一學期顏中考 復 工 系 姓名 何亚南	學號 801円017
[$\int [1] (1) x=0 C_0^{10} \times [0.1]^0 \times (0.4)^{10} = 0.3487$, $\chi=1 C_0^{10} \times (0.1)^1 \times [0.9]^9 = 0.3874$, $\chi=2 C_0^{10} \times (0.1)^2 \times (0.1)$	0.0574, X=4 0.0111,
13) (0-1) *x0.3487+(1-1) *x0.3874+(2-1) *x0.1937+	
[4]	
(5)	
<u>(6)</u>	
2711)	

差, Std[X] =? 巴球取出並登記 函數, $f_Y(y) = ? [1] |4|$ Y = 0 $\frac{90}{100} \times \frac{89}{99} \times \dots \times \frac{81}{91} = 0.3305$ 直+標準差, E[Y Y= 1 00 x ... x91 x10 = 04080 取出並登記顏1 乙總數定為隨機 Y=3 C/3 x 90x ... x 83x 10x 9 = 0.0518 F萬的國家在全 三的火災總件婁 機率質量函數 E均值 E[W] + $-E[W]| \leq 1$ > 120) =? Y:5 C57 20.00003 0" 這種情形 4:6 到假設,該接 claims that 4-8 = 10-10 ive of your c = 5.7769 × 10 4.9 the product: he occurrent 4=10 of "no mo (5) 0x0.3305+ 1x0.4080+ = 1 .000 = E[Y] (0-1) x 0.3305 + (1-1) x 0.4080 +... = 0.8180 = Std[Y] ide to do (i Sum: 1.818 (b) fz(z) = b*(z;5, 10). (2-1). (10)5. (9)2.5 b(x; n, p)

[2]

- 12) E[w] = 2t = 1; std(w) = 52t=1 Sum=2
- (3) |W-E[W] | < 2 std(W) => |W-1| < 2 => 1 < W < 3 P("|W-E[W] < 2 std(W)") =P(1 < W < 3) = 0.613|
- 14) P(W>120) = 1-P(W(120)=1- \(\frac{120}{25}\) fix(W)=1-1=0
- 的由上题了知,機率接近0,因拒絕



