長庚大學期中、期末考試答案用紙

學年度第一學期考電報	到三系 姓名 朱裳任 學號 80621142
D] (A) M=70, 5=8 70× 5% = 79×	
$n = y \leq x = 73$	V of
D = 5%.	X = 10 +10 = 10 det 1
美差在66.5	~73.5截之間可被接受
	不能推翻 M=70 歲之說天文
(b) S=9= 1 mport numpy Tomport scipy	as npctats as st stinorm. of (73, 10 c=70, scale=8/5)
774.	, stats as st = 0 0 > 03962 (0. C
92+73 = x Tmport panda	3 as pd. = >0.0.303963 20.5
~273.5527→ 己蔵出り3.5	:· S=9.且至=73.能推翻从-10歲之記天
	He A
[3] (a) $E(\hat{p}) = E(\frac{8}{n}) = \frac{1}{n}E(x) = \frac{1}{n} \cdot n \cdot p = p$	
$(1) \operatorname{std}(\widehat{p}) = \operatorname{Var}(\widehat{p}) = \left[\frac{1}{\sqrt{2}} \right] = \frac{1}{\sqrt{2}}$	× (1) (1 ·h · P·9 - 1P·9·
(1) std (p) = $\sqrt{\text{Var}(p)} = \sqrt{\text{Var}(\frac{z}{n})} = \sqrt{z}$	$ar(0) = \int $
$CO) \qquad C = \sqrt{1 - \sqrt{1 + + \sqrt{$	0,4899
$\frac{1}{\sqrt{n}} = \frac{1}{\sqrt{n}} = \frac{1}{\sqrt{n}}$	(00
(,) 0 1999	P=0, 6
0,6- (1,96) 0,4899 < MC 0,6 +(1,96)0,49	7 = 0, 4
6,5904 < M < 9,6096.	*
(d) 0,6 - (1.645) 6,4899 (nc 0,6+ (1.	645) 6,4099
6,5919 < M < 0,6081	<u> </u>
[3]. (a) $h = (00) p(x = 66) = 0.03908$ (b)	> st. binom. cdf (bb. (00,0,6)) => 0.9 08146
P = 0.6	⇒ 0,9 08146
import humpy as hp	1-0,908746=0,09=
import numpy as hp import scipy, Stats as st (c) 60.
import pandas as pa.)不拒絕接受Ho
(t. binom. pmt (66,100.0,6)	0.91
= 0.0390X 2	f) B = 0.0391
(q) (請翻面繼續作答)	
(可)的(四)	世·只「 」