Name: - Sujert Kunner BITS-ID 2018 AD 04062 Assignment: - Statusfus: Subonusion Dale: - 24/09/2019. Subonusion Dale: - 24/09/2019. O. No - 1 - So. Page 1-5-O. No - 2. So Page 1-2

Page-1 Lo \$ 1500 Ho: Ha: No = 1500 x= 51. =).05. X= 11. = 1.01 Lyrif cauce Fest Statushes $2 = \frac{x - h_0}{\sqrt{a}} = \frac{600 - 1500}{100/19} = \frac{100}{100/19} = \frac{3}{100}$ P= (1-09987) 2= .0026 As we have set the hypotheticales) we will go for \(\frac{1}{2} \text{ Total fest on (2-test)} \) \(\frac{1}{2} \) Case!: d = 1/. =) . Or ! $d_2 = .005$ (Come its trotus) ×/2=.005. 99.87799.5 & talle in Reject Repros Sime (99(872) 99(5), it falle under reject. we vojet Ho in favor

Alteroralmely P(X, =) Rejert Ho Hypotherie. Case-2' When $d = 57. \Rightarrow d = .05.$ Heer Rycet **50**.975 ·9**58**7 X=0.025 <= .025 (1-.025) cleary, (2= 9987) > .975. if falls under oeget Ryrøn. We Rejeet Ho in favor of Ha at the 8%. Cymificance Commits observation Suppostions. x=57. and x=1% Pralue = .0026 (P(X < 2) = .99870). This oreans that the chance of type I Ecoro (Tejeetreg a Corocet Ho) & Loods. o He Smaller the pralie, the more it Supports 41. Jest Statistics 2=3.0 is out in the 957.

Of Chitcel value. fest Statistes 22 3.0 is ord in the 99%. 211. Cost cel value

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Fest Statistu += 10 200+ in Bestrange of Cretical value [-3.254, 2.354]. Herne Ho Rejected. Alternaturely, Par P= · ovoorsys (x) Suggests seject we reject to in fouror of the at 11. Synficen busp Case 2° = 57 = $= 105/2^2$ (As testing) t=10, df=8 tw d= 5%, Critical value = [-2.2566, 2-3560]
Read form T-table Tdesto bution Region of Reptun t=10 isono in [-2.376, 2.372] do Hois Attroaterely (P=.00000840(7) Suggest sejents Le réjent to es ferror d'Ha at 57. Syrificaire land. Obsertion Consored Sugesting AS, Sample fize on =9 which is <30, we bloom tosefor go bos t-test satur 2-test.

X= 1.1. QUO X= 57.

P-5

- · Prone egude 0.00000848. Fis oncaus Clarge of type I Eller is Sovall Soveller I value this on ear it sufferst
- · 4=5]. That Stallation t = 10 is moral in the 957. Critical value encelosed [-2:312, 2-306] X=1600 is out acceptage 95%. saufa
 - · dz 11. Fist Statistes t= 10 is ord in the Jeny. of 99%. Critical value accepted sauge [-3.3554, 2.554]. X=1600 is out accepted in

= Also (0=9) (30, Suggestion would be got for 1- States cel from tem 2-40).

				lage-1
Sof S.	Cured	Condition	Eller	Total
Trouted wik.	180	20	Pro	300
Treated Willot	140	50	10	200
(Noday) Total	320	70	110	500

Ho: Freaked will duy = Not treaked with duy.
Ha: Freaked will duy & Not treaked with duy.

<u>Selails</u>	Currel	Expected (Condition	Deleo	-		_	
(2) Dong	180	192	20	42	(W	66	300	
Display.	140	128	50	28	10	44	200	
Total	320		70	77 1	110		Sto	

Don above fable all Expected Column value is

Calculated as forlows.

E = RTXCT blue CT = Column Total

N = Fotol = 500

E11 = 360x320 = 192, E21 = 360x70 = 42 E31=360x110

F21 = 200 x 320 = 12e E22 = 260 x 70 = 28 +32 = 260 x 110 = 44

Now we are good to kerfoom Chi-Squal Just P-2] Condition for Ch-Squar) - All Any Souple we are using oneds to be faller soundoorly) layer Courts: Each Expected value (moreon expected volve needs to be presti tea 5 -> Dodepudoud: - Saufig with sepleament, if out Santre be leyer tie 107. of population Au Expected value > 5,0 using & Osemed-tapedo) Calculate of X = O-E) (0-E) .75 144 -12 180 1.125 144 12 128 140 11.52 484 -2242 17.28 22 484 28 50 12.51 1150 34 66 26.51 11 29 -34 $\leq \frac{(o-E)^{L}}{F} = 74.57.$ defree of freedown (df) = (c-1)(v-1) = (2-1)(2-1) = 2. Conclusion 2005 = 5.99 (Jaku at 57. Syruf. Suie (74.57) 5.99) 1-2 Calculate Value Jordes frantable value, the hypothesis is rejected of there. frantable value, the hypothesis is rejected with frank Suprificant difference in the patent focated with

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