SASIL AL KHAN 20K-0477

Question # 01

 $X_A = 6.5$ years 6A = 0.9 0A = 36 $Y_B = 6$ years 6B = 0.8 0B = 49

nB = 49.

 $R = \begin{bmatrix} x_{H} - x_{B} \end{bmatrix} - do = (6.5 - 6) - 1 = -2.65$ $\begin{bmatrix} (6A)^{2} + (6B)^{2} & (0.9)^{2} + (0.9)^{2} \\ 0.4 & 0.8 \end{bmatrix} = \begin{bmatrix} (0.9)^{2} + (0.9)^{2} \\ 36 & 49 \end{bmatrix}$

Pl25-2.65) = 0.04 (CV)

Question #02: X = 9.8, 10.2, 10.4, 9.8, 10.0, 10.2, 9.6 95% CI = ?

Using calculator.

Y= 10

100 (1-x) = 95 1-d= 0.95

EN= 70

d= 0.05 €x2= 700.48

n= 7

1/2 = 0.025.

BX= 0.283.

tx/216 = 2.447

dec car

Egg = OPF

F- tol 3 < 4 < 8 + tol 8

10- (2.447) (0.283) < M < 10+ (2.447) (0.287)

9.738 2 M < 10.262

Question #0.2

X=> -24, -22, -26, .34, .35, .32, .33, .29, .19, .36, .80, .15, .17, .28, .38, .40, .37, .27

99% CI = ?

From Caluletor 100(1-x) = 99 X = 0.29 1-x = 0.99

n = 18 + 9/2 = 0.005+x12,17 = 2.898

7- +0/2 S/ < M < 7 + to/2 S/m.

(0.29) - (2.898)[0.074] < M < (0.29) + (2.898)[0.074] $\sqrt{18}$ 0.239 < M < 0.341

Cuestion # 04.

1-9 = 095

 $\alpha = 0.05$

d/2 = 0025.

Page No.

11-1

Page No.

DATE	DAYMTWTFSS
$V = (3.07)^2 + (0.80)^2$	2-
15 12	in a second
$\left(\frac{3.072}{15}\right)^{2} + \left(\frac{0.80^{2}}{12}\right)^{2}$	
[15]	
25 - 1/2 17	
V = 16.3 × 17	2 () () ()
to-025, 17 = 2.110.	
X1-X2- +012 812 + 872 (Mi	DN2 (X1-X2 + tx3 / 312 + 5
V ni na	1 / 1/2 / 1/
2.35 - (2.110) 3.072 + 0.802 < H, -M	12 < 235+ (2110) 3072+080
1 15 12	
0.608 < Mi-H2 < 4.092	
Question # 05	61.
200 STION # US	in the state
Ho: 4=46 KN/h.	
HI: H < 46 KW/h (left tall	test)
n=12	
X = 42 KW /h.	164/1
11-003	
to.05, 4 = - 1. 496 (C.V)	
- I amendadore	-1-796
t = X-M	
3/1/2	1 Block - March
t = -1.164. (TV)	13 3 17
t = -1.164. (TV) Donot reject to => TV \$	CY TONIES TONIES

DAYMTWTFSS DATE Question #6 S1 = 4. 0.05. $n_1 = 12$ $x_1 = 85$ $n_2 = 10$ $\vec{x}_2 = 61$ S2 = 5 do = 2. Ho & M, -M2 =1 4, 8 4-42 > 2 n2-1 4/2 + (5/2 U= V = 17.1 \$ 18 de f t= (85-81) -2 1.072 t= 1.022 (TV) 1-734 to-05,18 = 1.734 (cV) Dorot reject to.

DATE	DAYMITWIT	FSS
Question #07		
$X_A = 85$	84' Q5' $65' 75'$ $84' 83'$ $ERIC$ $X = 80'$ $n = 6$ $S = 3.32$	26 16 77
HO: MA = ME HI: MA + NE	,	
$Sp = Sp^{2}(n_{A}-1) + Se^{2}(n_{E}-1)$ $n_{A}+n_{E}-2$ $Sp^{2}= \frac{(1a-46)^{2}(6-1)+(3-22)^{2}}{6+6-2}$	(6-1)	
$Sp^{2} = 86.593$ $Sp = 9.31$ $d:f = V = n_{H} + n_{E} - 2 = 10$ $to.05, 10 = 100$.228 (CV)	
t = (XA-Xt)-do 8/BI/1/2+1/62		7
$t = \frac{(85-80)-0}{9.31 \sqrt{6v} + \sqrt{6v}}$ $t = 2.279 (T.V)$		
Page No.	5	

#4.342-, 22

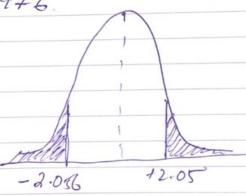
Question #08

$$V = \left(\frac{(4.7)^2 + 6.1^2}{11} \right)^2 + \left(\frac{61^2}{17} \right)^2 + \left(\frac{61^2}{17} \right)^2 + \left(\frac{61^2}{17} \right)^2 + \frac{10}{10} = \frac{16}{10}$$

$$V = 25.06 = 26 def$$
 $q = 0.05$

$$\alpha = 0.05$$
 $\alpha/2 = 0.025$
 $t \alpha/2, 26 = 2.056 (EV)$

$$t = \frac{85 - 79 - 8}{4.72 + 6.12}$$



- tol 146 < t < t x/2/26

Page No. don't reject to.

