



UNIT - 2 DESIGN OF EXPERIMENTS LATIN SQUARE DESIGN

Latin Square Design 1) An appliculturist wants to test the effect of four different feetfliggers A, B, C & D on the yield of paddy In order to eliminate Eaurces of exerc due to variability in self-feetility he used the feetfligers in a Latin square assangements quien below where the numbers indicate yuelds in quintals per unit area. Perform an analysis of variance to devide whether there is a difference by the feetfligers at 51. Level of Significance.

A 18	C 21	D25	BII
D 22	B 12	AIS	C 19
B 15	A 20	C 23	D24
622	021	1310	AIT

Colution:-Null Hypothesis: Hothere is no difference between faitilizers. Alternative Hypothesis: H_1 : There is a difference the faitilizers. Level of Significance: $\alpha = 5.1 = 0.05$

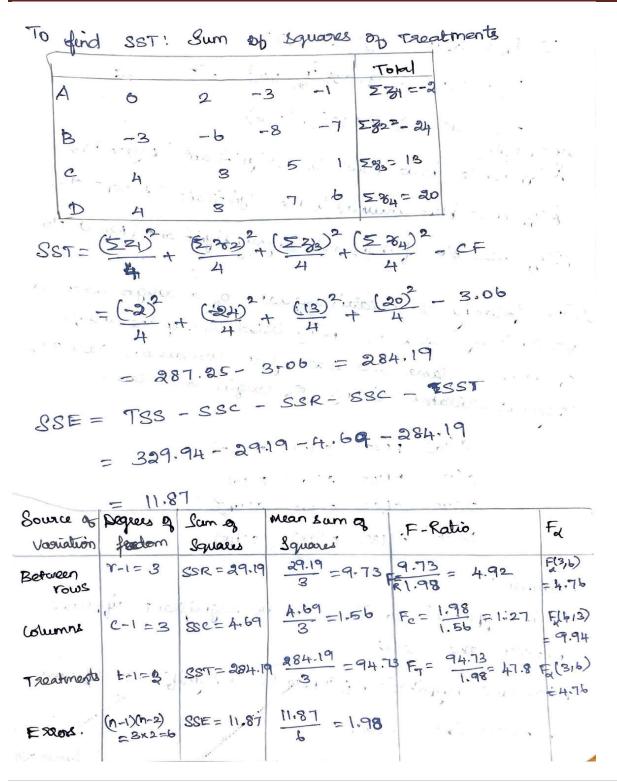
$$N = 16$$
, $n = 4$
 $CF = \frac{17}{N} = \frac{49}{16} = 3.062$

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Subtract '18' from each entries to Skyt the origin

$$\frac{2}{2} \frac{1}{2} \frac{1}{2}$$

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