

10. Layout the two way analysis of variance by using the following information showing the quality of rating of service stations by three professional raters.

Rater	Service Stations						
	I	II	III	IV	V	VI	VII
A	2	3	4	5	6	7	8
B	4	5	6	7	8	9	10
C	6	7	8	9	10	11	12

11. Explain the statistical model for Completely Randomized Design (CRD) with one observation per cell.
 12. Fill in the blanks (...) in the following analysis of variance table of the LSD.

Source of Variation	Degrees of freedom	Sum of squares	Mean sum of square	F value
Rows	3	243	...	3
Columns	108	...
Treatments	...	1215
Error	27	
Total		

13. Find the main effects, interaction effects, SS_a , SS_b and SS_{ab} in the following 2^2 –factorial experiment with 3 replications. Where notations have usual meaning. Explain which effects appear to be large?

Replication	Treatment Combination			
	(1)	a	b	ab
I	23	25	22	28
II	24	20	26	18
III	30	28	24	26

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