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AN AUTONOMOUS INSTITUTION



Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Topic: 2.9 – Tutorial 5

1. Three varieties of a crop are tested in a randomized block design with four replications. The plot yield in pounds are as follows.

A 6	C 5	A 8	B 9
C 8	A 4	B 6	C 9
B 7	B 6	C 10	A 6

2. Four varieties A, B, C, D of a fertilizer are tested in RBD with 4 replications. The plot yields in pounds are as follows:

Column/ Row	1	2	3	4
1	A(12)	D(20)	C(16)	B(10)
2	D(18)	A(14)	B(11)	C(14)
3	B(12)	C(15)	D(19)	A(13)
4	C(16)	B(11)	A(15)	D(20)

3. An experiment was designed to study the performance of 4 different detergents for cleaning fuel injectors. The following “cleanliness” readings were obtained with specially designed equipment for 12 tanks of gas distributed over 3 different models of engines:

	Engine 1	Engine 2	Engine 3
Detergent A	45	43	51
Detergent B	47	46	52
Detergent C	48	50	55
Detergent D	42	37	49

Perform the ANOVA and test at 0.01 level of significance, whether there are differences in the detergents or in the engines.