



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

**Topic: 1.7 – Tutorial 2**

1. Examine whether the difference in the variability in yields is significant at 5% level of signification for the following :

	Set of 40 plots	Set of 60 plots
Mean Yield per plot	1258	1243
S.D per plot	34	28

2. Test if the difference in the means is significant for the following data:

Sample I	76	68	70	43	94	68	33	
Sample II	40	48	92	85	70	76	68	22

3. A group of 10 rats fed on diet A and another group of 8 rats fed on diet B, recorded the following increase in weight

Diet A	5	6	8	1	12	4	3	9	6	10
Diet B	2	3	6	8	10	1	2	8		

Test the hypothesis that the sampled have same populations with equal variances at 5% level of significance.

4. The time taken by workers in performing a job by Method I and Method II is given below:

<b>Method I</b>	20	16	26	27	23	22	
<b>Method II</b>	27	33	42	35	32	34	38

Do the data show that the variances of time distribution from population from which these samples are drawn do not differ significantly?