



Tutorial 2

1. Two independent samples of sizes 8 and 7 contained the following values.
Test if the two populations have the same mean.

Sample I 19 17 15 21 16 18 16 14

Sample II 15 14 15 19 15 18 16

2. The marks obtained by a group of 9 regular course students and another group of 11 part time course students in a test are given below

Sample I	56	62	63	54	60	51	67	69	58		
Sample II	62	70	71	62	60	56	75	64	72	68	66

Examine whether the marks obtained by regular students and part- time students differ significantly at 5% and 1% levels of significance

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

Method I	20	16	26	27	23		22	
Method II	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?

4. Two independent samples of sizes 9 and 7 from a normal population had the following values of the variables.

Sample1	18	13	12	15	12	14	16	14	15
Sample2	16	19	13	16	18	13	15		

Do the estimates of the population variance differ significantly at 5% level of significance?

5. 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



SNS COLLEGE OF ENGINEERING
Coimbatore – 641 107





SNS COLLEGE OF ENGINEERING
Coimbatore – 641 107

