

ASSIGNMENT-6

1)

The manufacturer of a certain make of electric bulbs claims that his bulbs have a mean life of 25 months with a standard deviation of 5 months. Random samples of 6 such bulbs have the following values: Life of bulbs in months: 24, 20, 30, 20, 20, and 18. Can you regard the producer's claim to valid at 1% level of significance?

2)

Hypothesis Tests for Two Means :Independent Data:Here we test for a difference in means for the following data

No	237	289	257	228	303	275	262	304	244	233
Drug(x1)										
Drug(x2)	194	240	230	186	265	222	242	281	240	212

3)

the life time of electric bulbs for a random sample of 10 from a large consignment gave the following data: 4.2, 4.6, 3.9, 4.1, 5.2, 3.8, 3.9, 4.3, 4.4, 5.6 (in '000 hours). Can we accept the hypothesis that the average life time of bulbs is 4, 000 hours