

King Fahd University of Petroleum & Minerals
Department of Mathematics & Statistics
STAT-212-Term181
Quiz #2-30/9/2018

Name:

ID:

Serial:

A coffee manufacture is interested in whether the mean daily consumption of regular coffee drinker is less than that of decaffeinated-coffee drinkers. A random sample of 50 regular-coffee drinkers showed a mean of 4.35 cups per day, with a standard deviation of 1.20 cups per day. A sample of 25 decaffeinated-coffee drinkers showed a mean of 5.84 cups per day, with a standard of 1.36 cups per day.

- a. At 5% level of significance, is there evidence of difference in the variability of regular coffee drinkers and decaffeinated-coffee drinkers?
- b. Use the 0.01 significance level, is the mean daily consumption of regular coffee drinker is less than that of decaffeinated-coffee drinkers?