Name:                               ID:                               Serial:

Question One (5-Points)

Write **True** if the statement is true or **False** if not:

1. All of the central tendency measures can be used for categorical data:---------- *False*
2. The first quartile is not affected by extreme values:----*True*
3. For left skewed data distribution the population mean is grater the sample mean :--------- *False*
4. The sample variance always grater than the population variance:--*False*
5. The mean consider the way in which dada are distributed:--*False*

Question Two (5-Points)

The following observations are the daily sales in thousands of super market in S.R

| 4.6 | 4.7 | 4.8 | 4.9 | 5 | 5.3 | 5.5 | 5.7 | 5.9 | 6 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 6.1 | 6.1 | 6.3 | 6.4 | 6.5 | 6.9 | 7 | 7.3 | 7.4 | 7.8 |

Use the above data **sample** to answer the following questions

1. The sample median is equal to:
   a. 6.1
   b. 6.01
   c. 5.9
   **(d.)** 6.05

2. The sample standard deviation is equal to:
   **(a.)** 0.95581
   b. 0.8679
   c. 0.93161
   d. 0.91358

3. The coefficient of variation is:
   a. 9.56%
   **(b.)** 15.90%
   c. 15.50%
   d. 6.45%

4. The inter quartile range is equal to:
   a. 0.975
   b. 3.2
   **(c.)** 1.725
   d. 0.75

5. Based on the sample, the distribution of the data is:
   a. Symmetric
   b. Right -skewed
   **(c.)** Left -skewed
   d. Can't be determined