Name: ID: Serial:

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Question One (5-Points)

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

1. The mean can be used for categorical data: **False**
2. The 55-th percentile is not affected by extreme values: **True**
3. For skewed data distribution the population median differs from the sample median: **False**
4. The population variance always less than the sample variance: **False**
5. The variance consider the way in which dada are distributed: **False**

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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. 6.01
   b. 6.05
   c. 6.1
   d. 5.9

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

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

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

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

King Fahd University of Petroleum & Minerals
Department of Mathematical Science
STAT-211-Term053-II
Quiz #3

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 standard deviation always grater than the population standard deviation: **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