King Fahd University of Petroleum & Minerals  
Department of Mathematical Science  
STAT-211-Term043-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: True  
2. The first quartile is not affected by extreme values: True  
3. For left skewed data distribution the population mean is grater than the sample mean: False  
4. The sample variance always grater than the population variance: False  
5. The mean consider the way in which data are distributed: False  

Question Two (5-Points)  
The following observations are the daily sales in thousands of super market in S.R  

<table>
<thead>
<tr>
<th>4.6</th>
<th>4.7</th>
<th>4.8</th>
<th>4.9</th>
<th>5</th>
<th>5.3</th>
<th>5.5</th>
<th>5.7</th>
<th>5.9</th>
<th>6</th>
<th>6.1</th>
<th>6.1</th>
<th>6.3</th>
<th>6.4</th>
<th>6.5</th>
<th>6.9</th>
<th>7</th>
<th>7.3</th>
<th>7.4</th>
<th>7.8</th>
</tr>
</thead>
</table>

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