Assignment 11

Due date: 2020-04-15, 23:59 IST.

The due date for submitting this assignment has passed.

No marks will be awarded for this assignment.

Year 1 2nd season 3rd season 4th season
2016 75 60 51 59
2017 82 75 71 68
2018 90 72 66 85
2019 100 78 72 93

1. The following data can be represented graphically for different seasons as growth rates per annum:

<table>
<thead>
<tr>
<th>Location</th>
<th>Amount spent on advertisement (Rs in thousands)</th>
<th>Number of students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delhi</td>
<td>65</td>
<td>250</td>
</tr>
<tr>
<td>Pune</td>
<td>45</td>
<td>200</td>
</tr>
<tr>
<td>Mumbai</td>
<td>40</td>
<td>150</td>
</tr>
</tbody>
</table>

2. The quarterly values of the following data are:

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Actual demand</th>
<th>Forecast demand</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>110</td>
<td>120</td>
</tr>
<tr>
<td>2</td>
<td>105</td>
<td>120</td>
</tr>
<tr>
<td>3</td>
<td>130</td>
<td>130</td>
</tr>
<tr>
<td>4</td>
<td>150</td>
<td>130</td>
</tr>
</tbody>
</table>

3. Correct statement for statistical process control is

   - Variance can be underestimated
   - Lower variation in manufacturing process results in more savings
   - High variance helps to achieve product comparability
   - Variation in process is not statistical

   No, the statement is incorrect.

   Accepted Answer: Both A and B

4. The quality control check based on the 3S0 variance is

   - Variables
   - P-values
   - Poisson distribution
   - Chi-square distribution

   No, the statement is incorrect.

   Accepted Answer: C

5. Major driver of quality is

   - Competition in market
   - Trend for success
   - Pressure for greater production
   - All of the above

   No, the statement is incorrect.

   Accepted Answer: A