Assignment 6

Topic: Unit 8 - Week 6

End Date: 06-11-2018

1. A company carries out a process to extract material from a substance. The process is in control. The process yield is calculated as follows:

   a. The process is in control in terms of the extraction rate.
   b. The process is in control in terms of the purity.
   c. The process is in control in terms of the yield.

2. The main objective of a process capability analysis is:

   a. To determine the process performance.
   b. To estimate the capability of the process.
   c. To optimize the process performance.
   d. To support the design of the process.

3. A table is recommended for measuring and assessing capability of a process with the following columns:

   b. ProcessCentre.
   c. ProcessSD.
   d. ProcessMean.

4. A process capability analysis consists of:

   a. Yield.
   c. Process capability.
   d. Process variability.

5. The relationship between the yield of a process and the width of its specification limits is:

   a. Direct.
   b. Inverse.
   c. Linear.
   d. Cubic.

6. For measuring capability of a process, the following relations are to be determined:

   b. Process SD.
   c. Process mean.
   d. All of the above.

7. Internal variability of measured characteristics, in the context of measurement systems capability analysis, includes:

   a. Variability of the true process.
   b. Variability of the measurement system.
   c. Variability of the operator.
   d. Variability of the test method.

8. Control chart analysis for a process helps in assessing the capability of a process, wherein the process is:

   a. In control.
   b. Out of control.
   c. Neither in control nor out of control.
   d. Can be both.