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# Unit 7 - Week 6 - Control Charts for Attributes



## Assignment - 06

**The due date for submitting this assignment has passed.**
**As per our records you have not submitted this assignment.** **Due on 2018-09-19, 23:59 IST.**

1) Which of the following control charts should be used first in an actual statistical quality control program? ***1 point***

- x-bar chart
- c chart
- x chart
- s chart

**No, the answer is incorrect.**
**Score: 0**

**Accepted Answers:**
*s chart*

2) Which Chart is necessary in the following situations: ***1 point***

I. Where automation allows inspection of each unit, so rational subgrouping has less benefit.
II. Where production is slow so that waiting for enough samples to make a rational subgroup unacceptably delays monitoring.
III. For processes that produce homogeneous batches (e.g., chemical) where repeat measurements vary primarily because of measurement error.

- S-square Chart
- Moving Range Control Chart
- S Chart
- X-bar Chart

**No, the answer is incorrect.**
**Score: 0**

**Accepted Answers:**
*Moving Range Control Chart*

- 44
- 3.75
- 0.0917
- None of these

**No, the answer is incorrect.**
**Score: 0**

**Accepted Answers:**
*0.0917*

4) Compute the standard error of p-bar. ***1 point***

- 0.0456
- 0.0841
- 0.09375
- None of These

**No, the answer is incorrect.**
**Score: 0**

**Accepted Answers:**
*0.0456*

5) Based on the p chart, is this process in control? ***1 point***

- No, two sample proportions are outside the limits
- No, exactly one sample proportion is outside the limits
- Yes, it is in control
- Insufficient information to determine

**No, the answer is incorrect.**
**Score: 0**

**Accepted Answers:**
*No, exactly one sample proportion is outside the limits*

6) Which control chart makes use of the Poisson distribution? ***1 point***

- x-bar chart
- s chart
- R chart
- c chart

**No, the answer is incorrect.**
**Score: 0**

**Accepted Answers:**
*c chart*

7) One type of control chart for attributes is a ***1 point***

- x-bar chart.
- p-chart.
- CPK chart.
- R-chart.

**No, the answer is incorrect.**
**Score: 0**

**Accepted Answers:**
*p-chart.*

8) Twenty samples of size 100 are taken. The total number of defective items is 75. What is the UCL of the 3-sigma (z = 3) p-chart? ***1 point***

- 0.165
- 0.094
- 0.793
- 0.0375

**No, the answer is incorrect.**
**Score: 0**

**Accepted Answers:**
*0.094*

9) A customer service hotline has received an average of 7 complaints a day for the last 25 days. What type of control chart should be used to monitor this hotline? ***1 point***

- c-chart
- p-chart
- X-bar chart
- R-chart

**No, the answer is incorrect.**
**Score: 0**

**Accepted Answers:**
*c-chart*

10) For the last 30 days, the number of mistakes on the daily report has averaged 4.5. What would the UCL be if a 3-sigma c-chart was constructed? ***1 point***

- 7.5
- 10.86
- 18
- 2.12

**No, the answer is incorrect.**
**Score: 0**

**Accepted Answers:**
*10.86*

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