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QUESTION 1

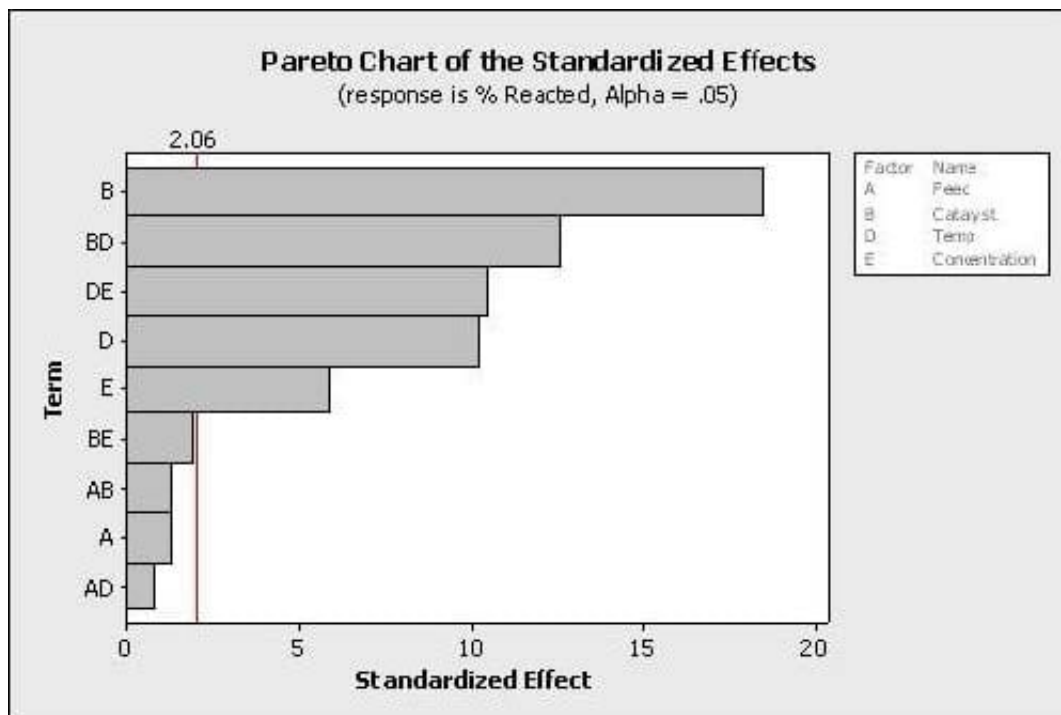
In a Fishbone Diagram the 6M\\'s stand for Methods, Measurements, Machine, Man, Mother Nature and _____

- A. Management
- B. Merger
- C. Materials
- D. Medical

Correct Answer: C

QUESTION 2

Which statement(s) are correct about the Pareto Chart shown here for the DOE analysis? (Note: There are 2 correct answers).



- A. It is unknown from this graph how many factors were in the Experimental Design
- B. The factors to keep in the mathematical model are E, D, DE, BD and B with an alpha risk equal to 2.06
- C. The effects to keep in the mathematical model are E, D, DE, BD and B with an alpha risk equal to 0.05
- D. The factors to keep in the mathematical model with a 5% alpha risk are BE, AB, A and AD

Correct Answer: AC

QUESTION 3

A Non-parametric Test should be used if just one distribution is not Normal out of the two or more gathered.

- A. True
- B. False

Correct Answer: A

QUESTION 4

If an experiment has 5 factors and no replicates for a 2-level Experimental Design with 16 experimental runs which statement is incorrect?

- A. The Experimental Design is half-fractional
- B. The Main Effects are confounded with only 4-way interactions
- C. The Main Effects for the 5 factors are not aliased or confounded but the 2-way interactions are confounded with the 3-way interactions
- D. The experiment has 8 experimental runs with the first factor at the high level

Correct Answer: C

QUESTION 5

Which of the following is not a disadvantage of the 5 Whys?

- A. The 5 Whys can be subjective
- B. If the investigators do not possess enough skill and knowledge on the topic, they cannot find the causes of the problem
- C. The 5 Whys cannot be easily learnt and applied as it requires no statistical analysis
- D. The 5 Whys help to identify only one root cause of a problem

Correct Answer: C

QUESTION 6

Following process modifications, the Null Hypothesis states that no improvement to the process has occurred. If we discover the Null Hypothesis Test was rejected when it was false that would be a(n) _____.

- A. Type I Error
- B. Type II Error
- C. Type III Error
- D. Alpha Error

Correct Answer: B

QUESTION 7

Which of these elements are not included in Implementation plans?

- A. Work breakdown structure
- B. Risk management plans
- C. Cost/Benefit ratios
- D. Planned audits of work completion

Correct Answer: C

QUESTION 8

In a good Measurement System the most variation will be with part-to-part measurements.

What should you do if the majority of variation is associated with the Gage RandR assuming the gage is technically capable?

- A. Focus on fixing the Repeatability and Reproducibility of the measurement device
- B. Purchase a new machine
- C. Focus on trimming the Part-to-Part variation
- D. Run another MSA test with the machine

Correct Answer: A

QUESTION 9

Data that can be measured on a continuum and has meaningful decimal subdivisions are _____ data.

- A. Continuous
- B. Surplus
- C. Discrete
- D. Variable

Correct Answer: A

QUESTION 10

The Greek letter "sigma" is used by mathematicians to signify _____.

- A. Curve Width
- B. Numerical Average
- C. Standard Deviation
- D. Data Spread

Correct Answer: C

QUESTION 11

Which of the following is not an example of automated gauges?

- A. Thermistor
- B. Flow meter
- C. Automatic rain gauge
- D. Slide caliper

Correct Answer: D

QUESTION 12

A _____ is used primarily to track the stability of the average value of a metric of interest.

- A. NP Chart
- B. Xbar-R Chart
- C. I-MR Chart

D. C Chart

Correct Answer: B

QUESTION 13

Cost of Poor Quality (COPQ) can be classified as Visible Costs and Hidden Costs. All these items are Hidden Cost except _____.

A. Lost Customer Loyalty

B. Returns

C. Time Value of Money

D. Late Delivery

Correct Answer: B

QUESTION 14

A(n) _____ is best used to compare a Machine 1 average quality characteristic to the same quality characteristic of Machine 2.

A. 1-Sample t-test

B. 2-Sample t-test

C. F test

D. ANOVA test

Correct Answer: B

QUESTION 15

Which of the following can be identified as a major drawback of `expert judgment`?

A. Subjective in nature

B. Flexibility

C. Objective in nature

D. Disinclined to biases

Correct Answer: A

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