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Question 1

The power of efficiency in designed experiments lies in the

Options:

A- Random order of performance.

B- The sequential and cyclical procedure of conjecture to design to analysis and back to conjecture.

C- Hidden replication.

D- The large number of possible combinations of factors.

Answer:

C

Question 2

To be effective, a corrective and preventive action system must have

Options:

A- A material review board.

B- Approved of the QC department.

C- Top management support.

D- A method for identifying nonconformities.

Answer:

D

Question 3

Question Type: **MultipleChoice**

The critical value of the t-distribution is

Options:

A- Always greater than the critical value of the normal distribution.

B- Always less than the critical value of the normal distribution.

C- Not related to the critical value of the normal distribution.

D- Approaches the critical value of the normal distribution as the degrees of freedom increase.

Answer:

D

Question 4

Question Type: **MultipleChoice**

As the scatter of points about a regression line becomes less, r2 will

Options:

A- Be unaffected.

B- Become smaller.

C- Become larger.

D- Approach a value of 1.

Answer:

D

Question 5

Question Type: **MultipleChoice**

An operation requires shipments from your vendor of small lots of fixed size. The attribute sampling plan used for receiving inspection should have its OC curve developed using

Options:

A- The binomial distribution.

B- The Gaussian (normal) distribution.

C- The Poisson distribution.

D- The hypergeometric distribution.

Question 6

A lot is known to be 1.2% defective. Five units are randomly selected from the lot, and the lot is accepted if 1 or fewer defects are found. What is the probability of the lot being rejected?

Options:

A- 0.9985

B- 0.01

C- 0.00173

D- 0.00223

Answer:

C

Question 7

Question Type: **MultipleChoice**

The basic elements of an ultrasonic test system do NOT include which of the following?

Options:

A- A transducer.

B- A test object.

C- A laser beam.

D- An electronic system.

Answer:

C

Question 8

Measurement gaging is preferable to go, no-go gaging of a quality characteristic because

Options:

A- It is more scientific.

B- It provides the most information per piece inspected.

C- It requires greater skills.

D- It requires a larger sample than go, no-go gaging does.

Answer:

B

Question 9

What distribution is used to determine the OC curve for an attributes sampling plan?

Options:

A- Normal.

B- Binomial.

C- Exponential.

D- The binomial or the hypergeometric distribution.

Answer:

D

Question 10

Question Type: **MultipleChoice**

The AQL for a given sampling plan is 1% this means that

Options:

A- The producer takes a small risk of rejecting product which is 1% defective or better.

B- All accepted lots are 1% defective or better.

C- All lots are 1% defective or better.

D- The average quality level of the plan is 1%.

Answer:

A

Question 11

Question Type: **MultipleChoice**

The steeper the OC-curve, the

Options:

A- Less protection for both producer and consumer.

B- More protection for both producer and consumer.

C- The lower the AQL.

D- The smaller the sample size.

Answer:

B

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