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NEW QUESTION: 1

The probability of accepting a lot of unacceptable quality is known as

- A. Alpha risk.
- B. Producer's risk.
- C. 1-beta.
- D. Beta risk.

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 2

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

- A. A laser beam.
- B. An electronic system.
- C. A test object.
- D. A transducer.

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 3

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

- A. It provides the most information per piece inspected.
- B. It requires a larger sample than go, no-go gaging does.
- C. It requires greater skills.
- D. It is more scientific.

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 4

A "p" chart

- A. Plots variations in dimensions.

- B. Can be used for only one type of defect per chart.
- C. Plots either the fraction or percent defective in order of time.
- D. Plots the number of defects in a sample.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 5

An audit will be viewed as a constructive service to the function which is audited when it

- A. Proposes corrective action for each item uncovered.
- B. Is conducted by nontechnical auditors.
- C. Is general enough to permit managerial intervention.
- D. Furnishes enough detailed facts so the necessary action can be determined.

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 6

The MOST essential value of a surface plate in precision measurement application is which of the following?

- A. It provides a flat working surface.
- B. It provides a chemically resistant work surface.
- C. It provides a surface free of minor vibration.
- D. It provides an accurate reference surface.

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 7

In nonparametric statistics:

- I. No assumptions are made concerning the distribution from which the samples are taken.
- II. The parameters of the distribution do not relate to the parameters of the sample.
- III. The sample and the distribution must have no parameters in common.

- A. I only
- B. II and III only
- C. III only
- D. II only

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 8

Normally, complaint data for both a product or service organization should provide

- A. The degree or extent of customers dissatisfaction.
- B. An indication of the organizational areas creating the most problems.
- C. The total quality costs for the organization.
- D. The appropriate corrective action to take.

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 9

A typical use for the optical comparator would be to measure

- A. Contours.
- B. Depth of holes.
- C. Surface finish.
- D. Diameters of internal grooves.

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 10

As a commonly used problem solving technique, which of the following would be the BEST application of a Pareto chart?

- I. To determine when to make proactive adjustments to a process.
 - II. To differentiate between major and minor problem areas.
 - III. To gather data and to design experimental controlled changes.
 - IV. To evaluate the results of other problem solving techniques upon the product or service.
- A. II and IV only
 - B. I and II only
 - C. II and III only
 - D. I, II, III and IV

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 11

The Malcolm Baldrige award is open for competition among which of the following?

- . Large manufacturing businesses.
 - . Large and small manufacturing businesses.
 - . Service organizations.
 - . Large service companies.
- A. I and III only
 - B. II and IV only
 - C. II and III only
 - D. I only

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 12

Information that is received by upper management, is often distorted. Which of the following actions is effective in countering this problem?

- I. Stop killing the messenger.
 - II. Establishing an open door policy.
 - III. Practice management by walking around.
- A. I and III only
 - B. I and II only

C. I, II and III

D. I only

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 13

Which table should be used to determine a confidence interval on the mean when standard deviation is NOT known and the sample size is 10?

A. F

B. z

C. Chi-Square

D. t

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 14

An X-bar and R chart was prepared for an operation using twenty samples with five pieces in each

sample; X-bar was found to be 33.6 and R-bar was 6.20. During production, a sample of five was taken and the pieces measured 36, 43, 37, 25, and 38. At the time, this sample was taken:

A. Only the average was outside control limits.

B. Only the range was outside control limits.

C. Neither the average nor range were within control limits.

D. Both the average and range were within control limits.

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 15

Typically Pareto diagrams are used for which of the following reasons?

I. To display the significant few categories.

II. To compliment attribute data charting.

III. To eliminate insignificant categories.

IV. To focus attention in priority order.

A. I, II and III only

B. I and III only

C. II, III and IV only

D. I, II, III and IV

Answer: (SHOW ANSWER)

NEW QUESTION: 16

Which of the following are likely to be positive actions in obtaining a supplier's commitment to quality improvement?

I. Involving the supplier early in the product development stage.

II. Partially reimbursing the supplier, when the product is rejected.

III. Establishing a firm schedule of required product quantities and dates.
IV. Providing meaningful and timely quality performance feedback.

- A. I and IV only
- B. I, II, III and IV
- C. I, II and IV only
- D. I, III and IV only

Answer: ([**SHOW ANSWER**](#)**)**

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NEW QUESTION: 17

An electronics firm was experiencing high rejections in their multiple connector manufacturing departments. "p" charts were introduced as part of a program to reduce defectives. Control limits were based on prior history, using the formula:

P' is the historical value of percent defective and n is the number of pieces inspected each week.

After six weeks, the following record was accumulated

1,000 pieces were inspected each week in each department. Which department(s) exhibited a point or points out of control during this period (round off calculations to nearest tenth of a percentage point)?

- A. Department 106.
- B. Department 104.
- C. Department 105.
- D. All of the department.

Answer: ([**SHOW ANSWER**](#)**)**

NEW QUESTION: 18

A system was designed with 3 capacitors. When the system is first activated all capacitors are operating.

The system continues to operate as long as at least 1 capacitor is operating. This is an example of

- A. A series system.
- B. A standby parallel system.
- C. An active parallel system.
- D. Redundancy.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 19

What is the highest form of partnering with employees?

- A. Cost reduction projects.
- B. Task teams.
- C. Employee involvement.
- D. Stock option plans.

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 20

If a distribution is skewed to the right

- A. None of the above.
- B. The mode is greater than the median.
- C. The mean is between the mode and the median.
- D. The mode is between the median and the mean.

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 21

Which of the following problem-solving tools is a column graph which displays a static picture of the process?

- A. Cause and effect diagram.
- B. Pareto chart.
- C. Control chart.
- D. Histogram.

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 22

The Malcolm Baldrige award is open for competition among which of the following?

- I. Large manufacturing businesses.
- II. Large and small manufacturing businesses.
- III. Service organizations.
- IV. Large service companies.

- A. I and III only
- B. II and III only
- C. I only
- D. II and IV only

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 23

The probability of an accident for the head event "H" given below is:

- A. 0.1100
- B. 0.0689
- C. 0.1125
- D. 0.0700

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 24

When planning quality control functions, which one of the following is MOST directly related to production of a quality product?

- A. Suitable blueprints.
- B. Process control and process capability.
- C. Dimensional tolerancing.
- D. Product audits.

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 25

The probability of an accident for the head event "H" given below is:

- A. 0.0689
- B. 0.1125
- C. 0.1100
- D. 0.0700

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 26

Quality audits do NOT provide

- A. An index of quality needs.
- B. Answers to quality system deficiencies.
- C. An anticipated indication of customer acceptance of the product.
- D. Highlighting of faulty company operations.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 27

What is the key ranking difference between the Deming philosophy and the Malcolm Baldrige award criteria?

- A. The MBNQA ranks "business results" and "customer focus", but Deming does not consider these items.
- B. There is no recognized rating system for the MBNQA.
- C. Deming prescribes "all or nothing" propositions but MBNQA ranks categories with different weights.
- D. The MBNQA has seven categories compared to Deming's 14 points.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 28

Which of the following is the BEST method to developing materials for a training program on the gaps in performance?

- A. Secure a workshop trainer.
- B. Allocate employees for training.
- C. Review a record of activities.
- D. Set up a one shot case study.

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 29

An experiment with two factors, in which all levels of one variable are run at each level of the second variable, is called a

- A. Latin square experiment.
- B. Factorial experiment.
- C. Fractional factorial experiment.
- D. One-way experiment.

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 30

An electronics firm was experiencing high rejections in their multiple connector manufacturing departments. "p" charts were introduced as part of a program to reduce defectives. Control limits were based on prior history, using the formula:

P' is the historical value of percent defective and n is the number of pieces inspected each week. After six weeks, the following record was accumulated

1,000 pieces were inspected each week in each department. Which department(s) exhibited a point or points out of control during this period (round off calculations to nearest tenth of a percentage point)?

- A. Department 106.
- B. Department 105.
- C. Department 104.
- D. All of the department.

Answer: ([SHOW ANSWER](#)**)**

NEW QUESTION: 31

The MOST essential value of a surface plate in precision measurement application is which of the following?

- A. It provides a chemically resistant work surface.
- B. It provides an accurate reference surface.
- C. It provides a surface free of minor vibration.
- D. It provides a flat working surface.

Answer: B ([LEAVE A REPLY](#))

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NEW QUESTION: 32

Which of the following are TRUE statements regarding the use of visual inspection?

- I. Reference standards can be used.
- II. It provides consistency between inspectors.
- III. It is relatively expensive.
- IV. It can be quickly performed.

- A.** I, II and IV only
- B.** I, II, III and IV
- C.** II and IV only
- D.** I and IV only

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 33

Reliability prediction is

- I. The process of performance estimation.
- II. The process of estimating the probability that a product will perform its intended function for a stated time.
- III. The process of telling "how you can get there from here".

- A.** II and III only
- B.** I, II and III
- C.** II only
- D.** I only

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 34

In the failure rate model shown below, which one of the sections represents the period when catastrophic failures are likely to occur?

- A.** B
- B.** C
- C.** A

D. All sections can experience catastrophic failure.

Answer: [\(SHOW ANSWER\)](#)

NEW QUESTION: 35

When using a control chart, a point plotting within the limits on the chart is

- A. The equivalent of type II error.
- B. The equivalent of not rejecting the hypothesis that the process is in control.
- C. The equivalent of type I error.
- D. The equivalent of accepting the hypothesis that the process is in control.

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 36

Corrective action requests are primarily

- A. Generated to correct auditing deficiencies.
- B. A result of nonconformances detected in the internal inspection process.
- C. Issued to correct supplier deficiencies.
- D. Formal requests for corrective and preventive action.

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 37

A comprehensive corrective action program is initiated at a large company. Input for CARs are received from customers, internal and external audits, material review reports and other sources. Which two of the following groups would usually administer and control the CAR process?

- . Management review team.
- . Quality department.
- . Corrective Action Board.
- . Material Review Board.

- A. III and IV only
- B. I and II only
- C. I and III only
- D. II and III only

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 38

Failure mode, effect, and criticality analysis, (FMECA) is primarily for the purpose of

- A. Determining the cause of a failure, by dissecting the item, to help obtain corrective action.
- B. Learning as much about the item as possible after qualification test.
- C. Determining, by extensive analysis, the reliability of an item.
- D. Determining the way an item will most likely fail to help obtain design and procedural safeguards against such failures.

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 39

The distribution of a characteristic is negatively skewed. The sampling distribution of the mean for large samples is:

- A. Lognormal.
- B. Negatively skewed.
- C. Approximately normal.
- D. Positively skewed.

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 40

The primary advantage of the Latin square design, compared to the factorial design, is that

- A. It allows higher significance levels.
- B. It does not require homogeneity of variance.
- C. In most circumstances, it requires less data.
- D. It eliminates the need for interaction analysis.

Answer: ([SHOW ANSWER](#)**)**

NEW QUESTION: 41

During the performance of an audit, which of the following are key considerations?

- I. What sampling plans may be necessary?
- II. Is the audit schedule progressing as planned?
- III. Is there a need for a technical specialist?
- IV. Is the level of compliance satisfactory?

- A. II and IV only
- B. I and IV only
- C. I, II and III only
- D. I, II, III and IV

Answer: ([SHOW ANSWER](#)**)**

NEW QUESTION: 42

If the probability of a success on a single trial is 0.2 and 3 trials are performed, what is the probability of at least one success?

- A. 0.488
- B. 0.384
- C. 0.008
- D. 0.600

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 43

What are the major disadvantages of having an improvement team that is too large?

- . Difficulty in having constructive input from the entire group.
- . Difficulty in arriving at consensus.
- . Difficulty in finding large meeting facilities.
- . Difficulty, on the part of the recorder, in keeping up with more paperwork.

A. I, II, III and IV

B. I and II only

C. I, II and III only

D. I only

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 44

A comprehensive corrective action program is initiated at a large company. Input for CARs are received from customers, internal and external audits, material review reports and other sources. Which two of the following groups would usually administer and control the CAR process?

I. Management review team.

II. Quality department.

III. Corrective Action Board.

IV. Material Review Board.

A. I and II only

B. III and IV only

C. I and III only

D. II and III only

Answer: ([SHOW ANSWER](#)**)**

NEW QUESTION: 45

A product failure in the customer's hands is bad for the company. Why do only 4% of the customers normally file a complaint?

A. They don't think it will do any good.

B. It is a minor inconvenience.

C. A warranty is in place on the product.

D. The product guarantee takes care of the product.

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 46

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

A. Normal.

B. Binomial.

C. The binomial or the hypergeometric distribution.

D. Exponential.

Answer: ([SHOW ANSWER](#)**)**

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NEW QUESTION: 47

Which of the following actions or techniques is MOST useful in determining the original fundamental cause of a product or process nonconformance?

- A. Pareto analysis.
- B. Continuous improvement.
- C. Root cause analysis.
- D. Preventive action.

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 48

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

- A. All accepted lots are 1% defective or better.
- B. All lots are 1% defective or better.
- C. The producer takes a small risk of rejecting product which is 1% defective or better.
- D. The average quality level of the plan is 1%.

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 49

What does a corrective action do to prevent an existing nonconformity, defect or undesirable situation from recurring?

- A. Takes action against it.
- B. Takes repercussions against those responsible.
- C. Minimizes it.
- D. Eliminates it.

Answer: ([SHOW ANSWER](#)**)**

NEW QUESTION: 50

The difference between setting alpha equal to 0.05 and alpha equal to 0.01 in hypothesis testing is

- A. With alpha equal to 0.05, we are more willing to risk a type I error.
- B. With alpha equal to 0.05, we are more willing to risk a type II error.
- C. Alpha equal to 0.05 is a more "conservative" test of the null hypothesis.

D. With alpha equal to 0.05, we are less willing to risk a type I error.

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 51

Periodically, a sample of 20 items are randomly selected from a population that is normally distributed, the average is computed, and plotted. Which of the following statements is correct?

- I. The average of the logarithms of the values is lognormally distributed.
- II. The standard deviation of the averages is equal to the standard deviation of the individuals divided by the square root of 20.
- III. The variance of the averages is equal to the variance of the individuals divided by the square root of 20.

- A. II only
- B. I and III only
- C. I and II only
- D. I only

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 52

A normal (Gaussian) distribution curve is

- A. Positively skewed.
- B. Bell shaped.
- C. Pear shaped.
- D. Dome shaped.

Answer: ([SHOW ANSWER](#)**)**

NEW QUESTION: 53

A company is planning to completely change its employee performance, appraisal and reward system. Which of the following is NOT viable for consideration in the new system?

- A. Integrating subordinate, peer, customer, and self-evaluations with supervisory ratings.
- B. Requiring less frequent performance reviews, but utilizing many rating categories.
- C. Requiring work team or group evaluations that are equal in emphasis to individual evaluations.
- D. Using continuous improvement, quality and customer satisfaction as key criteria.

Answer: ([SHOW ANSWER](#)**)**

NEW QUESTION: 54

What is the key ranking difference between the Deming philosophy and the Malcolm Baldrige award criteria?

- A. Deming prescribes "all or nothing" propositions but MBNQA ranks categories with different weights.
- B. There is no recognized rating system for the MBNQA.

C. The MBNQA ranks "business results" and "customer focus", but Deming does not consider these items.

D. The MBNQA has seven categories compared to Deming's 14 points.

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 55

Which of the following nondestructive testing methods can be used to evaluate sub-surface discontinuities in aluminum bar stock?

- . Microwave.
- . Magnetic particle.
- . Pulse echo.
- . Eddy current.

A. I and III only

B. I, II and IV only

C. III and IV only

D. I and IV only

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 56

Which of the following is the BEST statement to make regarding the relationship between product precision and product production?

- A. With too little precision, production costs increase.
- B. Precision costs and performance are related.
- C. With little precision, performance will improve.
- D. With too much precision, production costs increase.

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 57

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

- A. The producer takes a small risk of rejecting product which is 1% defective or better.
- B. All lots are 1% defective or better.
- C. The average quality level of the plan is 1%.
- D. All accepted lots are 1% defective or better.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 58

You are requested by top management to establish an audit program of the quality systems in each branch plant of your firm. Which of the following schemes would you use in selecting the audit team to optimize continuity, direction, availability, and technology transfer?

- A. Hybrid audit staff (a proportion of answers a and b above).
- B. A full time audit staff.

- C. All volunteer audit staff.
- D. An outside consulting firm.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 59

Four ingredients are blended to make a final product. Using the data below, what is the expected weight and variation of the final product?

Ingredient A 70 +/- 3.00 grams

Ingredient B 20 +/- 1.73 grams

Ingredient C 15 +/- 1.73 grams

Ingredient D 10 +/- 1.00 grams

- A. 115 +/- 3.61 grams
- B. 115 +/- 5.73 grams
- C. 115 +/- 7.46 grams
- D. 115 +/- 4.00 grams

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 60

Regardless of the distribution of the individuals, the distribution of the average of n samples will follow which distribution as n becomes large?

- A. Exponential.
- B. Lognormal.
- C. Normal
- D. Poisson.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 61

You have been asked to sample a lot of 500 units from vendor whose past quality has been about 2% defective. A sample of 40 pieces is drawn from the lot and you have been told to reject the lot if you find two or more parts defective. What is the probability of finding two or more parts defective?

- A. 0.047
- B. 0.809
- C. 0.953
- D. 0.191

Answer: D ([LEAVE A REPLY](#))

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NEW QUESTION: 62

An X-bar and R chart with $n=5$ has been plotted for some time and has demonstrated random variation. Upon review of the last 30 plot points, the expected number of runs around the centerline on the X-bar chart is expected to be approximately which of the following?

- A. 9
- B. 12
- C. 4
- D. 16

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 63

In the failure rate model shown below, which one of the sections represents the period when catastrophic failures are likely to occur?

- A. All sections can experience catastrophic failure.
- B. B
- C. A
- D. C

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 64

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

- A. Approved of the QC department.
- B. Top management support.
- C. A material review board.
- D. A method for identifying nonconformities.

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 65

The difference between setting alpha equal to 0.05 and alpha equal to 0.01 in hypothesis testing is

- A. With alpha equal to 0.05, we are more willing to risk a type I error.
- B. With alpha equal to 0.05, we are more willing to risk a type II error.
- C. Alpha equal to 0.05 is a more "conservative" test of the null hypothesis.
- D. With alpha equal to 0.05, we are less willing to risk a type I error.

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 66

Select the incorrect statement from among the following. The IDs of a certain piece of tubing are normally distributed with mean 1.00". The proportion of tubing with IDs less than 0.90 is

- A. Less than the proportion with IDs greater than 1.00
- B. Less than 50 percent.
- C. Less than the proportion of IDs greater than 0.90
- D. Less than the proportion with IDs greater than 1.10

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 67

Which of the following quality system provisions is of the greatest concern when preparing an audit checklist for a vendor qualification system audit?

- A. Calibration of test equipment.
- B. Drawing and print control.
- C. Training level of inspectors.
- D. Makeup of the MRB

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 68

The equation below represents the:

- A. None of the above.
- B. Exponential probability density function.
- C. Lognormal probability density function.
- D. Normal probability density function.

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 69

When asked to make recommendations on how to correct any deficiencies noted in the exit report, the auditor(s) should

- A. Avoid a recommendation in writing but help the auditee if possible.
- B. Offer no specific advice and few suggestions.
- C. Confer with the client first.
- D. Make the best recommendation possible.

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 70

The failure rate model above is used to show a typical relationship of many parts between their failure rate and the time in service. The reliability function for period "B" is BEST represented by

- A. Option D
- B. Option C
- C. Option B

D. Option A

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 71

Periodically, a sample of 20 items are randomly selected from a population that is normally distributed, the average is computed, and plotted. Which of the following statements is correct?

- . The average of the logarithms of the values is lognormally distributed.
- . The standard deviation of the averages is equal to the standard deviation of the individuals divided by the square root of 20.
- . The variance of the averages is equal to the variance of the individuals divided by the square root of 20.

- A. I only
- B. I and III only
- C. I and II only
- D. II only

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 72

What is the standard deviation of the values below?

4.5, 5.1, 6.2, 2.1, 3.9

- A. 2.087
- B. 1.362
- C. 1.136
- D. 1.522

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 73

As a commonly used problem solving technique, which of the following would be the BEST application of a Pareto chart?

- . To determine when to make proactive adjustments to a process.
- . To differentiate between major and minor problem areas.
- . To gather data and to design experimental controlled changes.
- . To evaluate the results of other problem solving techniques upon the product or service.

- A. II and IV only
- B. I, II, III and IV
- C. I and II only
- D. II and III only

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 74

Analysis of data on all product returns is important because

- I. Failure rates change with length of product usage.
- II. Changes in design and in customer use are often well reflected.
- III. Immediate feedback and analysis of product performance becomes available.

- A. I, II and III
- B. I only
- C. II and III only
- D. I and III only

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 75

Consider the following statement:

"A defect which might affect the appearance or general function of essential parts" This definition describes a seriousness classification described as

- A. Minor.
- B. Incidental.
- C. Critical.
- D. Major.

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 76

The existence of a quality control manual at your key supplier means

- A. That a quality system has been implemented.
- B. That the firm is quality conscious.
- C. That a quality system has been developed.
- D. That the firm is a certified supplier.

Answer: ([SHOW ANSWER](#))

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NEW QUESTION: 77

A purchase order for subassemblies classified as critical must include a review by

- . Quality engineering.
- . The procurement department.
- . Design engineering.

- A. I and III only
- B. II and III only
- C. III only
- D. I, II and III

Answer: [\(SHOW ANSWER\)](#)

NEW QUESTION: 78

The power of efficiency in designed experiments lies in the

- A. Random order of performance.
- B. The sequential and cyclical procedure of conjecture to design to analysis and back to conjecture.
- C. The large number of possible combinations of factors.
- D. Hidden replication.

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 79

Which of the following is NOT a method for customer service data collection?

- A. Customer visits.
- B. Complaint analysis.
- C. Customer surveys.
- D. Internal surveys.

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 80

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

- A. The hypergeometric distribution.
- B. The binomial distribution.
- C. The Poisson distribution.
- D. The Gaussian (normal) distribution.

Answer: [\(SHOW ANSWER\)](#)

NEW QUESTION: 81

What is the standard deviation of the following data?

3.2, 3.1, 3.3, 3.3, 3.1

- A. 0.0498
- B. 0.1
- C. 3.2
- D. 0.0894

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 82

The Shewhart or Deming cycle is often referred to as

- A. The cause and effect diagram.
- B. The affinity diagram.
- C. Plan-do-check-act.
- D. Problem solving flow chart.

Answer: (SHOW ANSWER)

Explanation

NEW QUESTION: 83

If a sample size of 16 yields an average of 12 and standard deviation of 3, estimate the 95% confidence interval for the population (assume a normal distribution).

- A. Option C
- B. Option D
- C. Option B
- D. Option A

Answer: D (LEAVE A REPLY)

NEW QUESTION: 84

If the probability of a success on a single trial is 0.2 and 3 trials are performed, what is the probability of at least one success?

- A. 0.488
- B. 0.384
- C. 0.600
- D. 0.008

Answer: A (LEAVE A REPLY)

NEW QUESTION: 85

Which of the following are the MOST logical reasons for providing source inspection?

- . The supplier has consistently shown poor out-going quality.
- . The key inspection points are hidden after assembly at the suppliers' plant.
- . The supplier requests the inspection to save them potential shipping expenses.
- . The criticality of the product warrants it.

- A. II and IV only
- B. I, II and IV only
- C. I, II, III and IV
- D. II, III and IV only

Answer: C (LEAVE A REPLY)

NEW QUESTION: 86

A single sampling plan calls for a sample size of 80 with an acceptance number of five and a rejection number of six. If the quality of the submitted lots is 10 percent defective, then the percent of lots expected to be accepted in the long run is approximately.

- A. 6%
- B. 20%
- C. 30%
- D. 10%

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 87

The critical value of the t-distribution is

- A. Approaches the critical value of the normal distribution as the degrees of freedom increase.
- B. Always greater than the critical value of the normal distribution.
- C. Not related to the critical value of the normal distribution.
- D. Always less than the critical value of the normal distribution.

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 88

Which of the following would be considered the WEAKEST reason to initiate an audit?

- A. Follow-up on corrective action.
- B. Verify that a quality system continues to meet requirements.
- C. To compare actual practice to a defined standard.
- D. Identify the root cause of a recent problem.

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 89

The "least squares method" is used in

- A. Calculating a best fit regression line.
- B. Calculating σ^2
- C. 2
Calculating σ and s^2
- D. The central limit theorem

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 90

In order to implement a continuous improvement strategy, a company may institute a steering committee or improvement council. Which of the following would generally NOT be a task performed by this council?

- A. The development of a quality vision for the company.
- B. The definition of certain quality objectives for sections of the company.
- C. The development of quality education and communication modules for the organization.

D. The combined development and implementation of the company improvement strategy.

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 91

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?

A. 0.9985

B. 0.01

C. 0.00173

D. 0.00223

Answer: C ([LEAVE A REPLY](#))

Explanation/Reference:

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NEW QUESTION: 92

The steeper the OC-curve, the

A. The smaller the sample size.

B. More protection for both producer and consumer.

C. Less protection for both producer and consumer.

D. The lower the AQL.

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 93

The following measurements for a sample with dimension X are representative of a process known to be in statistical control

42, 52, 64, 45, 53, 56, 70, 57, 49, 62

Which of the following values BEST approximates the upper and lower control limits of the process capability.

A. 59 and 51

B. 70 and 42

C. 81 and 29

D. 64 and 46

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 94

What is the standard deviation of the values below?

4.5, 5.1, 6.2, 2.1, 3.9

A. 1.136

B. 2.087

C. 1.362

D. 1.522

Answer: C ([LEAVE A REPLY](#))

NEW QUESTION: 95

Which of the following would be the MOST important considerations when establishing inspection points within a production operation?

I. Inspection to prevent defects from entering the system.

II. Inspection after all operations (both manual and automated).

III. Inspection prior to a painting or masking operation.

A. I and III only

B. I only

C. I and II only

D. I, II and III

Answer: A ([LEAVE A REPLY](#))

NEW QUESTION: 96

Any group, designing a quality information system (QIS) to collect product data, must consider which of the following items?

. How the results will be used.

. The frequency that results must be reported.

. The allowable data error variation.

A. II and III only

B. I, II and III

C. I and II only

D. II only

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 97

A process is normally distributed with a mean of 200 and a variance of 25. One item is randomly selected, what is the probability of this item having a value greater than 210?

A. 0.0012

B. 0.3446

C. 0.0375

D. 0.0228

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 98

How many outcomes are possible when performing a single trial of a binomial experiment?

- A. 4
- B. 1
- C. 3
- D. 2

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 99

A system was designed with 3 capacitors. When the system is first activated all capacitors are operating. The system continues to operate as long as at least 1 capacitor is operating. This is an example of

- A. Redundancy.
- B. An active parallel system.
- C. A series system.
- D. A standby parallel system.

Answer: ([SHOW ANSWER](#)**)**

NEW QUESTION: 100

Given that the population standard deviation is 6.8, what sample size is required to be 90% confident that the estimated mean has an error less than 0.02?

- A. 189,859
- B. 175,987
- C. 152,083
- D. 312,761

Answer: ([SHOW ANSWER](#)**)**

NEW QUESTION: 101

Which of the following tools can provide a ranking of things to be done?

- A. Measles charts.
- B. Checklist.
- C. Cause & effect diagram.
- D. Scatter diagram.

Answer: B ([LEAVE A REPLY](#))

NEW QUESTION: 102

The probability of an accident for the head event "H" given below is:

- A. 0.1100
- B. 0.0700

C. 0.1125

D. 0.0689

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 103

Typically Pareto diagrams are used for which of the following reasons?

. To display the significant few categories. . To compliment attribute data charting. . To eliminate insignificant categories.

. To focus attention in priority order.

A. II,IIIandIVonly

B. I,II,IIIandIV

C. I andIIIonly

D. I,IIandIIIonly

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 104

The sample size for a product quality audit should be

A. A stated percentage of production.

B. A very small quantity of product.

C. Based on ANSI/ASQ Z1.4.

D. Based on the lot size.

Answer: B ([LEAVE A REPLY](#))

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