

Verified CRE Exam Dumps Q&As - Provide CRE with Correct Answers [Q62-Q78]



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QUESTION 62

In order to sustain a high system reliability in the field, it is BEST to:

Response:

- * Write detailed reports on major failure modes.
- * Lubricate the equipment exactly to manufacturing specifications.
- * Fully analyze all failed components
- * Follow a preventive maintenance program with scheduled diagnostic checks.

QUESTION 63

Corrective maintenance is performed in order to

Response:

- * Restore a system to acceptable operation after a failure has occurred.
- * Restore a system to acceptable operation during scheduled downtime.
- * Reduce failure occurrence as directed by condition assessments.
- * Correct potential failure on a regular schedule before they occur.

QUESTION 64

For a reliability plan to be most effective, the reliability tasks should be integrated with which of the following plan?

Response:

- * Reliability centered maintenance.
- * Product sales.
- * Product distribution
- * Product design and development.

QUESTION 65

A Reliability Engineering Department is conducting a training needs assessment. Which of these techniques are used for a training needs assessment?

- I. Personal observations.
- II. External customer surveys.
- III. Costs analysis.
- IV. Work sampling.
- V. Interviews.

Response:

- * I, IV and V only
- * II, III and IV only
- * I, III, IV and V only
- * I, II, III, IV and V

QUESTION 66

Which of the following calculation is used to determine the overall tolerance for the serial combination of the component?

Response:

- * The average of the tolerances.
- * The maximum of the tolerances.
- * The sum of the tolerances
- * The square root of the sum of the square of the tolerance.

QUESTION 67

Of the following, which is the MOST important reliability principle?

Response:

- * Use only proven designs.
- * Specify only high reliability components.
- * Consider reliability early in the design phase.
- * Use redundancy throughout the design.

QUESTION 68

What is the Z value needed to conduct a two tail test in a statistical inference problem, specifying 90% level of confidence?

Response:

- * 1.96
- * 1.28
- * 1.65
- * 2.24

QUESTION 69

Production error by human operators may be caused by:

- I. Inadequate work space.
- II. Inadequate job planning information.
- III. Poor environmental conditions.

Response:

- * I
- * I and II
- * II
- * All of the above

QUESTION 70

A mission profile is:

- I. Time-phased.
- II. A summary of events and environments.
- III. All activities from initiation to completion of a mission.

Response:

- * I and III only
- * II and III only
- * III only
- * I, II and III

QUESTION 71

A highly accelerated stress screening (HASS) test can help to detect and separate units with manufacturing defects. HASS test limits are typically developed from:

Response:

- * Production reliability acceptance tests.
- * Statistical process control data
- * Highly Accelerated Life Tests.
- * Bayesian reliability testing.

QUESTION 72

Specifically, up-time ratio is a measure of:

Response:

- * Maintenance action rate.
- * Hazard rate.
- * Maintainability
- * Availability.

QUESTION 73

From a company's point of view, which of the following costs would be LEAST appropriate for determining the cost of reliability?

Response:

- * Warranty cost.
- * Reliability training
- * Life testing.
- * Equipment depreciation.

QUESTION 74

The House of Quality incorporates a correlation matrix roof. This describes the relationships between which of the following?

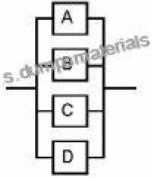
Response:

- * Hows [design features].
- * Whats [customer needs].
- * Whats and hows.
- * Competitive comparisons.

QUESTION 75

What is this system's reliability at 700 hours?

Component failure data is : Failure rate of A = 0.0007 failures/hr ; Reliability of B = 0.92 ; MTTF of C = 1400 hours ; Reliability of D = 0.85.



Response:

- * 0.986
- * 0.998
- * 0.994
- * 0.952

QUESTION 76

A satellite has two redundant control systems, each has a failure rate (λ) = 1×10^{-6} failures/hour. If one of the systems fails, the failure rate for the remaining system increases to 2×10^{-5} failures/hour.

What is the reliability of the redundant control systems at 175,000 hours?

Response:

- * 0.8609
- * 0.7796
- * 0.690
- * 0.2507

QUESTION 77

In order to attain a high order of series reliability:

Response:

- * The number of parts must be kept to a minimum.
- * The number of parts must be increased.
- * The number of parts must have a low failure variance.
- * The number of parts is insignificant if each part has a reliability of 99 percent or more.

QUESTION 78

Which of the following is the primary goal of accelerated testing?

Response:

- * Increased quality
- * Increased reliability.
- * Reduced development cost.
- * Reduced development time.

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