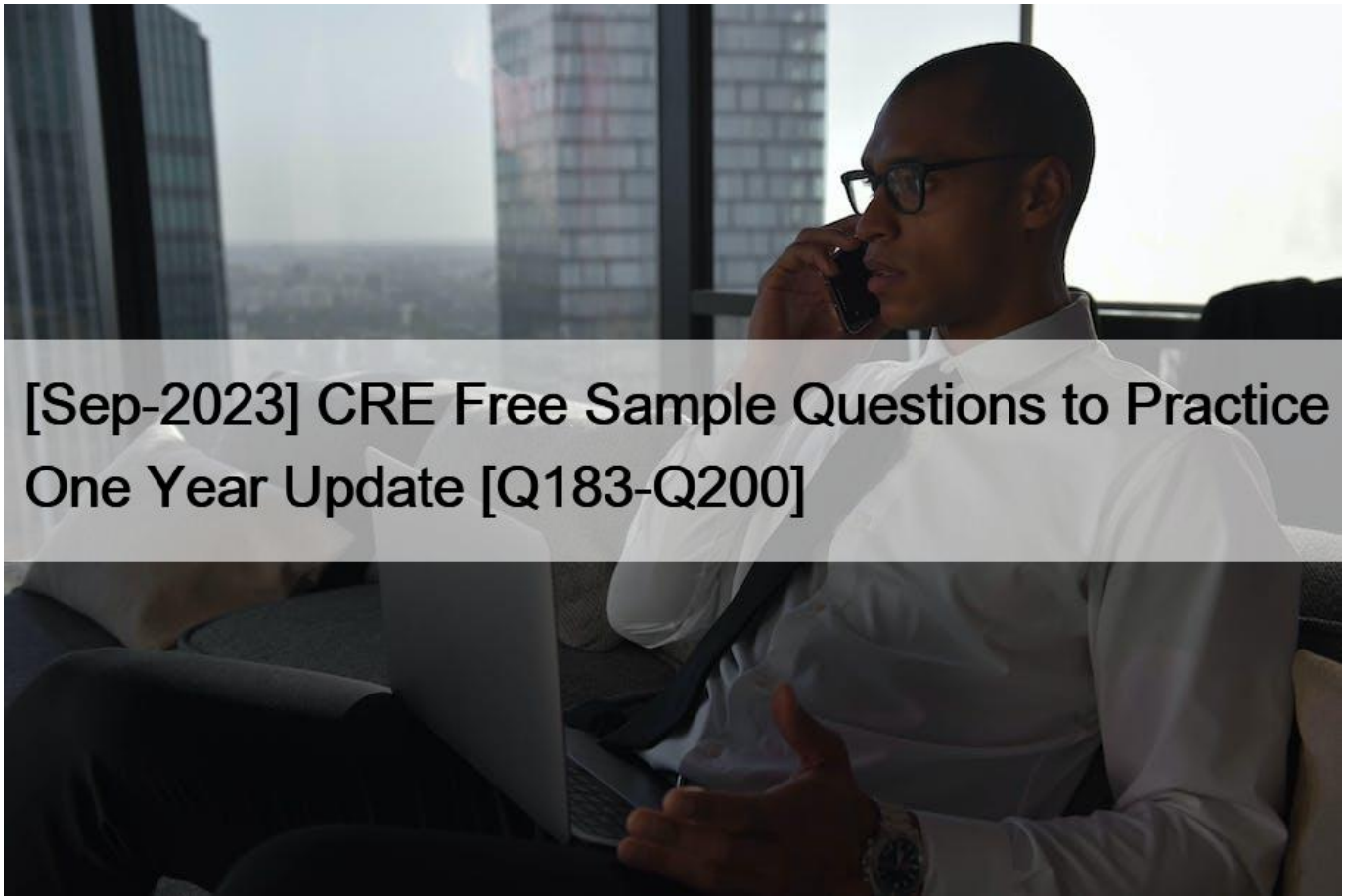


[Sep-2023 CRE Free Sample Questions to Practice One Year Update [Q183-Q200]



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NO.183 Arrange the following failure data steps into the correct sequence from start to finish.

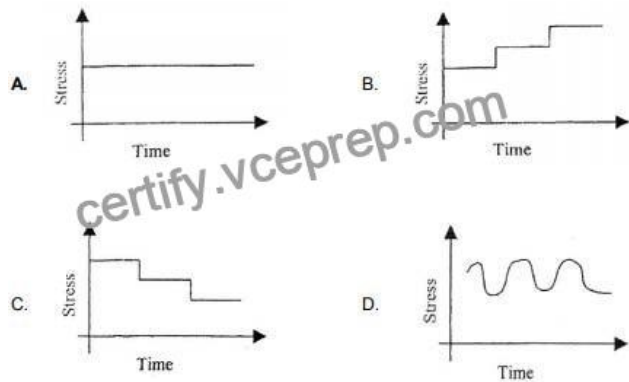
- I. Verify the failure.
- II. Identify and control the failure.
- III. Investigate the failure.
- IV. Provide corrective action and follow up.
- V. Report the fail.

Response:

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

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

NO.184 Which of the following graphs represents a product that is a good candidate for an accelerated degradation test involving overstress testing?



Response:

- * Option A
- * Option B
- * Option C
- * Option D

NO.185 The reliability of a device comprised of various parts functioning in series is the:

Response:

- * Product of the reliability.
- * Sum of the probabilities of the unreliability.
- * Product of the unreliability
- * Sum of the reliability.

NO.186 Maintainability is:

Response:

- * The probability of a system being restored to functional operation within a given period of time.
- * Performing adequate maintenance on a system.
- * Probability of survival of a system for a given period of time.
- * Maintaining a machine in satisfactory working condition.

NO.187 The optimum cost point for total life cycle costs occurs:

Response:

- * When operations and maintenance costs are minimized.
- * When reliability program expenditures are maximized.
- * When acquisition costs plus ongoing costs are minimized.
- * When manufacturing and development costs are minimized.

NO.188 What is this system's reliability at 3000 hours?

MTBFs for the components are :

A = 2500 hours B = 3700 hours C = 2000 hours D = 4000 hours.

Response:

- * 0.017
- * 0.014
- * 0.047
- * 0.029

NO.189 Which of the following statements is TRUE about human factor points?

Response:

- * They should be incorporated during the design phase.
- * They are not necessary until the product has been designed and field tested.
- * They are most costly to incorporate during the concept phase.
- * They generally cause schedule slippage whenever they are incorporated.

NO.190 You have written what you feel is an excellent book on reliability principles. Your company wants you to conduct company-wide training classes on a specific reliability topic.

Your advice is sought and you recommend your text because you are familiar with it. What other professional action should be immediately taken?

Response:

- * Be modest and nonassuming when explaining your work.
- * Recommend the work of another author to avoid the appearance of impropriety.
- * Inform your employer of your business connection to the book.
- * If the book is commercially available and your royalty is small, no other action is required.

NO.191 A system is made up of several identical parts of varying age. The reliability of each of these parts is given by $R(t) = e^{-\lambda t}$ where λ is the failure rate in failures per hour and t is the operating time in hours.

Which of the following is TRUE about the reliability of these parts?

Response:

- * The oldest part is expected to fail first.
- * The failure rate of the system is given by the product of the individual part reliabilities.
- * Each of the parts has the same probability of failing during a given period of time.
- * The failure rate of the system is given by the product of the individual part failure rates.

NO.192 In standby parallel systems, imperfect switching means :

- I. The switch is not perfect.
- II. The secondary unit is on back-up.
- III. The reliability of the system is less than with perfect switching.

IV. The secondary unit has the same reliability as the primary unit.

Response:

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

NO.193 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

NO.194 QFD stand for

Response:

- * Quality Function Deployment.
- * Qualification of Preliminary Design.
- * Quantitative Functional Development.
- * Quality Focused Department.

NO.195 Some keys to a successful reliability program include:

I. An evolutionary approach to new product development

II. Emphasis on manufacturing conformance to specifications

III. Development of strong long-term relationships with a small number of suppliers IV. The use of standards for guidance and lessons learned Response:

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

NO.196 Customer feedback and data have been gathered on several new unknown failure modes, what would be an appropriate analysis tool to use on the data?

Response:

- * Conduct a FMECA.
- * Use a FTA.
- * Use a pareto chart for failures.
- * Perform a risk assessment.

NO.197 For continual improvement in product reliability which of the following tests is MOST desirable?

Response:

- * Development tests.
- * Burn-in tests
- * Stress screening tests
- * Qualification tests.

NO.198 The influence of FMEA on reliability is maximized at which of the following stages of development?

Response:

- * Design.
- * Prototype.
- * Test.
- * Operation.

NO.199 To be accurate and easy to use, field-failure reports should have all of the following attributes EXCEPT Response:

- * Commonly used data points presented in a check-off format.
- * Common failure modes and corrective actions included as a check-off.
- * Adequate space for hand-written comments and explanations.
- * Identification of customer symptoms to explain the cause or problem.

NO.200 If a component has a known constant failure rate of 0.0037 failures per hour ; the reliability of two of these components in a series alignment would be:

Response:

- * Insufficient information to solve problem.
- * 99.63 percent.
- * Less than 99 percent.
- * Dependent on the wear out rate of a mating subsystem

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