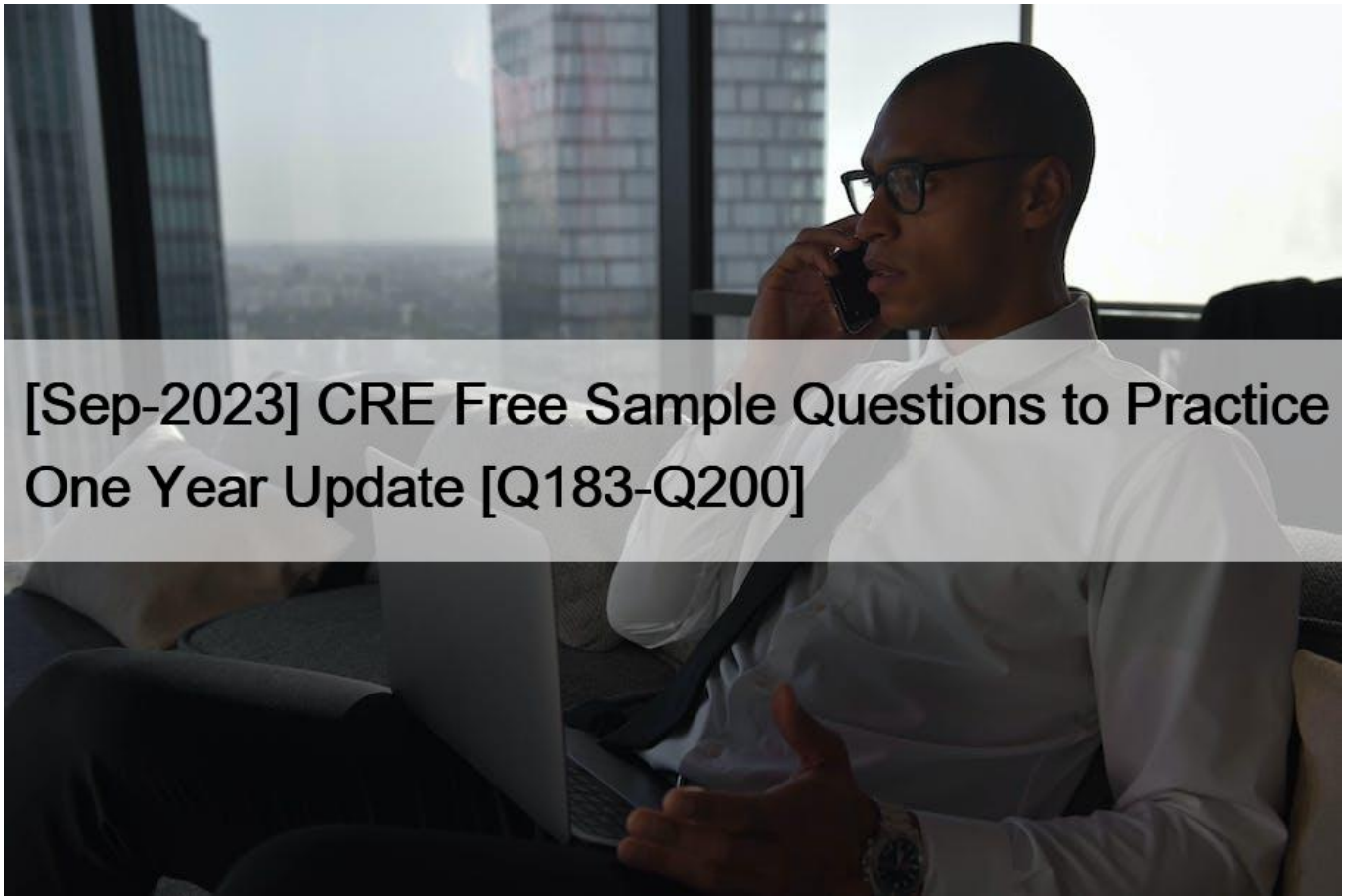


## [Sep-2023 CRE Free Sample Questions to Practice One Year Update [Q183-Q200]



### [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.

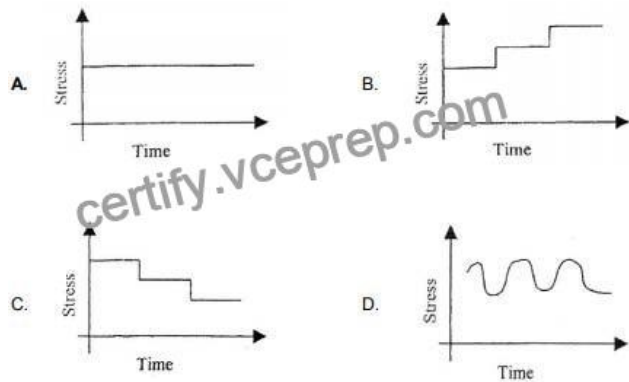
- I. Verify the failure.
- II. Identify and control the failure.
- III. Investigate the failure.
- IV. Provide corrective action and follow up.
- V. Report the fail.

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  $\lambda$  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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