Assignment 4

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment, please update your record.

1. The reliability assessment primarily comprises
   - Reliability
   - Availability
   - Maintainability
   - Serviceability
   - Repairability
   - Usability

   No, the answer is incorrect. Score: 0
   Accepted Answers:
   [Multiple choices available]

2. In the S-Beta curve representing failure rate with respect to time, the useful life is represented as
   - In the S-Beta curve representation, the debugging phase, wear-out phase and chance failure phase are represented by Weibull distribution as
   - Three phases are found at different points in time
   - Two phases are found at different points in time
   - One phase is found at different points in time

   No, the answer is incorrect. Score: 0
   Accepted Answers:
   [Multiple choices available]

3. If the failure distribution rates follow Weibull distribution, the mean time for tyre wear out on Indian roads is 8 years. If 3-8, the probability of tyre wear failure by 10 years will be
   - 0.08
   - 0.18
   - 0.21
   - 0.19

   No, the answer is incorrect. Score: 0
   Accepted Answers:
   [Multiple choices available]

4. A systematic failure analysis needs to be applied only when
   - Failure rates are affecting the economy of industry
   - Failures are disrupting the public service
   - Failures are threats to human safety
   - All of above

   No, the answer is incorrect. Score: 0
   Accepted Answers:
   [Multiple choices available]

5. Preliminary examination of a failed component includes
   - Random sample testing
   - Magnetic particle testing
   - Oil penetration testing
   - X-ray inspection by thermal methods

   No, the answer is incorrect. Score: 0
   Accepted Answers:
   [Multiple choices available]

6. If tempering treatment is missed after quenching of hardened steel, then it will lead to
   - Poor strength
   - Poor hardness
   - Poor toughness
   - All of above

   No, the answer is incorrect. Score: 0
   Accepted Answers:
   [Multiple choices available]

7. The intensity of a blast of pressurized cylinder can be assessed through
   - Wireframing analysis
   - Deformation testing
   - Metallography
   - Non-destructive testing

   No, the answer is incorrect. Score: 0
   Accepted Answers:
   [Multiple choices available]

8. Area of interest on a fracture surface for future investigation during failure analysis can be identified with the help of
   - Metallography
   - Non-destructive testing
   - Chemical composition analysis
   - Chemical composition analysis

   No, the answer is incorrect. Score: 0
   Accepted Answers:
   [Multiple choices available]

9. The possible features of fracture initiation sites can be observed with
   - False fringe diagram
   - Systematic photography with light from different angles
   - Non-destructive testing
   - Radiography

   No, the answer is incorrect. Score: 0
   Accepted Answers:
   [Multiple choices available]