Unit 6 - Week 5

Assignment 5

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

1. Circumferential cracks near the fractured surface are generally found in
   - Toughness-based samples
   - Hardness-based samples
   - Creep-tested samples
   - Tensile-tested samples
   Yes, the answer is incorrect. Score: 0
   Accepted Answer: Creep-tested samples

2. Start fracture surface of a component subjected to tensile test indicates that the failure has occurred under
   - Fracture surface condition
   - Fracture surface condition
   - Lateral shear condition
   - All of the above
   Yes, the answer is incorrect. Score: 0
   Accepted Answer: Plane shear condition

3. Beach marks are observed in fractured surface of sample subjected to
   - Stress corrosion cracking
   - Fatigue test
   - Bend test
   - Creep test
   Yes, the answer is incorrect. Score: 0
   Accepted Answer: Fatigue test

4. Complete ductile fracture shows
   - Plane fractured surface perpendicular to the axis of sample
   - Cup-cone fractured surface
   - Fracture surface exhibits extensive voids of fracture surface
   Yes, the answer is incorrect. Score: 0
   Accepted Answer: Externally void area of fracture surface

5. The phenomenon that indicates mechanical failure is
   - Fatigue
   - Deformation
   - Fatigue
   - All of the above
   Yes, the answer is incorrect. Score: 0
   Accepted Answer: All of the above

6. The experimental stress analysis in failure study involves the use of
   - Only destructive test methods
   - Only non-destructive test methods
   - Both destructive as well as non-destructive test methods
   Yes, the answer is incorrect. Score: 0
   Accepted Answer: Both destructive as well as non-destructive test methods

7. Inappropriate handling of samples collected from fractured surface can cause
   - Mechanical damage
   - Chemical damage
   - Thermal damage
   - All of the above
   Yes, the answer is incorrect. Score: 0
   Accepted Answer: All of the above

8. Purpose of machining of failed component is
   - Keep the record of failed components
   - Clean the failed surface
   - Carry out further analysis of sample from failed component
   - Study test on the failed component for further study
   Yes, the answer is incorrect. Score: 0
   Accepted Answer: Carry out further analysis of sample from failed component

9. Internal pressure in a cylinder can cause fracture in
   - Circumferential direction
   - Transverse direction
   - Longitudinal direction
   - All of the above
   Yes, the answer is incorrect. Score: 0
   Accepted Answer: Longitudinal direction

10. The leading condition that generally results in fractures is
    - Oxides
    - Brittle
    - Ductile
    - All of the above
    Yes, the answer is incorrect. Score: 0
    Accepted Answer: Oxides