

Metallurgical Testing and Inspection Objective Questions and Answers Pdf

1. Distortion of magnetic field by cracks and flaws in the test specimen is the principle involved in
 - a. Radiography
 - b. Ultrasonic testing
 - c. Magnaflux method
 - d. Supersonic method

Ans: C

2. In Brinell hardness test, the measurement of the _____ is most prone to error.
 - a. Diameter of indenter ball
 - b. Load applied
 - c. Surface area of indenter ball
 - d. Diameter of indentation

Ans: D

3. Which of the following is the most vulnerable point for notch brittleness to occur in a metallic bar specimen?
 - a. Points of stress concentration
 - b. Corner points
 - c. Mid-point of the specimen
 - d. A distance of three fourth of the length of the specimen

Ans: A

4. Decrease in stress at constant deformation under creep conditions is termed as the
 - a. Stress relief
 - b. Stress relaxation
 - c. Proof stress
 - d. Residual stress

Ans: B

5. ____ test determines the ability of a material to withstand repeatedly applied stress.

- a. Creep strength
- b. Impact
- c. Fatigue
- d. Brinell's hardness

As: C

6. Hardness of a glass sheet is best determined by the

- a. Brinell hardness tester
- b. Vickers hardness tester
- c. Shore scleroscope
- d. Rockwell hardness tester

An: C

7. Charpy test

- a. Is suitable for highly ductile material
- b. Is not an impact test
- c. Employs the test specimen bar as a cantilever
- d. Is a destructive test

Ans: D

8. The crystal structure of a material can be examined by the

- a. Electron microscope
- b. Optical microscope
- c. Gamma radiology
- d. X-rays and electron diffraction

Ans: D

9. Inspection of surface cracks in the welding of non magnetic alloys is done by the ____ testing method.

- a. Fluorescent
- b. Ultrasonic

- c. X-ray
- d. Magnaflux

Ans: A

10. A universal testing machine

- a. Subjects the test specimen to tensile load
- b. Is a hydraulic machinery
- c. Subjects the test specimen to the tensile force through the screw motion
- d. Tests the specimen under tension bending and shear loads

Ans: D

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