

## Metallurgical Testing and Inspection Quiz Questions and Answers Pdf

1. Bend test is performed on a metal to determine its toughness. Wrap around bend test is generally used for
  - a. Round bars
  - b. Tubess
  - c. Sheet metal
  - d. Wires

Ans: D

2. \_\_\_\_\_ test is a non destructive test.
  - a. Cuppings
  - b. Charpy
  - c. Radiography
  - d. Tensile

Ans: C

3. Which of the following is a non destructive test?
  - a. Fatigue test
  - b. Torsion test
  - c. Bend test
  - d. Ultrasonic inspection

Ans: D

4. Which of the following hardness testing requires indenter to be coated with dye before taking impression?
  - a. Rockwell C on hardened material
  - b. Brinell on an annealed material
  - c. Brinell on hardened material
  - d. Rockwell B on an annealed material

Ans: B

5. Which of the following metals appear silvery white on visual inspection?
  - a. Lead

- b. Magnesium
- c. Zinc
- d. None of these

As: B

6. Hardness of a safety razor blade is best measured by the
- a. Brinell hardness test
  - b. Vicker's diamond pyramid test
  - c. Shore or rebound hardness test
  - d. Rockwell superficial hardness test

As: D

7. Most common reason for fatigue failure of materials due to
- a. Electrochemical corrosion
  - b. Application of repeated stress
  - c. Its less elasticity
  - d. Its high yield point

Ans: B

8. Ability of a material to withstand vibratory stress by converting mechanical energy into heat is called its
- a. Endurance limit
  - b. Damping capacity
  - c. Toughness
  - d. Brittleness

Ans: B

9. Materials of construction of the indenter ball in the Brinell hardness test for hard metals is
- a. Stainless steel
  - b. Diamond
  - c. Tungsten carbide
  - d. High carbon steel

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Ans: C

10. Which of the following is a pre-requisite for the test specimen before it is subjected to examination under metallurgical microscope for studying its metallographic structure?

- a. Plastic deformation
- b. Elastic deformation
- c. Etching
- d. Heating and annealing

Ans: C

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