Assignment 8

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

1) Metal(s) to be used under sub-zero temperature service condition must have
   - High yield strength
   - High hardness
   - Low Duct

   All of above

   No, the answer is incorrect.
   Grade: 0
   Accepted Answers: Low Duct

2) Chemical composition of the material affects
   - Mechanical properties only
   - Microstructure only
   - Both microstructure and mechanical properties

   Size and shape of inclusions

   No, the answer is incorrect.
   Grade: 0
   Accepted Answers: Both microstructure and mechanical properties

3) Material used under high temperature service condition primarily requires
   - High creep resistance
   - High hardness
   - High ductility
   - High yield strength

   No, the answer is incorrect.
   Grade: 0
   Accepted Answers: High creep resistance

4) Generally, too the weld joint lead to
   - Low creep resistance
   - High stress concentration
   - High microstructure
   - Low strength

   No, the answer is incorrect.
   Grade: 0
   Accepted Answers: High stress concentration

5) Property more specifically related to the impact resistance is
   - Ultimate tensile strength
   - Creep
   - Toughness
   - Endurance limit

   No, the answer is incorrect.
   Grade: 0
   Accepted Answers: Toughness

6) Microstructure of the material can be easily identified by
   - Optical microscope
   - Transmission electron microscopy
   - SEM
   - Microscopy

   No, the answer is incorrect.
   Grade: 0
   Accepted Answers: Microscopy

7) Generally, type of the load experienced by the rail track is
   - Fatigue load
   - Creep load
   - Tensile load
   - Plastic load

   No, the answer is incorrect.
   Grade: 0
   Accepted Answers: Fatigue load

8) Formation of muckers in a steel weld joint can be suggested by
   - Hardness test
   - Microscopy
   - XRD
   - All of above

   No, the answer is incorrect.
   Grade: 0
   Accepted Answers: All of above

9) Mark the type of steel and corresponding environment causing embrittlement
   - A) High strength alloy steel
   - B) Austenitic stainless steel
   - C) Ferritic stainless steel
   - D) Carbon-Manganese steel

   - A & B, B & C, C & D
   - A & B, B & C, D
   - A & B, C & D, D
   - All of above

   No, the answer is incorrect.
   Grade: 0
   Accepted Answers: A & B, B & C, C & D

10) Embrittlement caused by plastic deformation of surfacer shear is caused by
    - Quenching embrittlement
    - Shot peening embrittlement
    - Tempering embrittlement
    - 320°C embrittlement

    No, the answer is incorrect.
    Grade: 0
    Accepted Answers: Shot peening embrittlement

Due on 2020-04-22, 23:59 IST.