Assignment 7

Due on: 2019-09-18, 22:59 IST

1. The HAZ associated with a weld is:
   - Not affected by the parent plate.
   - The area immediately adjacent to the weld which has undergone a microstructural change.
   - The area on the parent plate which has undergone a microstructural change.
   - The area in the weld region that has lower yield strength.

No, the answer is incorrect. 
   Score: 1
   Accepted Answers:
   - All of the above

2. The extension of the changes in microstructure will depend on:
   - Material composition
   - Weld type
   - Hot spot cooling
   - All of the above

No, the answer is incorrect. 
   Score: 1
   Accepted Answers:
   - All of the above

3. Consider the following statements in respect of the preheating:
   - It reduces the heat losses from the weld area.
   - It produces cracking by preventing the formation of large surface.
   - It increases the expansion and contraction rates.
   - Which of the statements given below is correct?

No, the answer is incorrect. 
   Score: 1
   Accepted Answers:
   - (2 and 3 only)

4. Post weld heat treatment is performed to:
   - Analyze the weld bead stresses
   - Establish the structure
   - Reshapes the structure
   - All of the above

No, the answer is incorrect. 
   Score: 1
   Accepted Answers:
   - All of the above

5. Consider the following statements:
   - Preheating is used to improve the quality of the weld joint but it does not affect the HAZ.
   - This text is used to find out the parent temperature required for a particular material.
   - All of the above statements given above are correct.

No, the answer is incorrect. 
   Score: 1
   Accepted Answers:
   - None of the above

6. Volume of parent metal to be removed part of the weld metal zone or the weld bead is known as:
   - Undercut Zone
   - Fusion Zone
   - Gross Fillet Zone
   - Gross Growth Zone

No, the answer is incorrect. 
   Score: 1
   Accepted Answers:
   - None of the above

7. During solidification, grains in the weld pool tend to grow in the direction of:
   - Maximum temperature gradient
   - Minimum temperature gradient
   - Both maximum and minimum temperature gradient
   - None of the above

No, the answer is incorrect. 
   Score: 1
   Accepted Answers:
   - Minimum temperature gradient

8. Consider the following statements:
   - Ageing results in the formation of a zone below AT temperature.
   - Deformation in a hightemperature takes place in the underlying zone due to grain coarsening.
   - Which of the statements given above is correct?

No, the answer is incorrect. 
   Score: 1
   Accepted Answers:
   - (1 and 2)

9. Which element is responsible for the white age embrittlement in G-4th steel?
   - Molybdenum
   - Nickel
   - Titanium
   - Chromium

No, the answer is incorrect. 
   Score: 1
   Accepted Answers:
   - Molybdenum

10. Porosity is generally prevented by:
    - Slag inclusion
    - Hydrogen cracking
    - Lack of side wall room
    - Porosity

No, the answer is incorrect. 
   Score: 1
   Accepted Answers:
   - Hydrogen cracking