Assignment 9

Due on 2019-10-02, 23:09 IST.

1. Which of the following gases is not usually used in welding?
   - Argon, CO₂, N₂, He, O₂
   - Argon
   - CO₂
   - N₂
   - O₂
   - He

2. Which of the following descriptions of welding processes is incorrect?
   - Consumed electrode gives less distortion than a shielded electrode
   - High welding speed gives less distortion
   - Deep penetration welds give high distortion
   - Byron pass welding gives less distortion than multi-pass welding
   - Consumed electrode gives less distortion than a shielded electrode
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3. Which of the following statements is correct in case of welding distortion in a butt weld?
   - Transverse shrinkage is less than longitudinal shrinkage
   - Transverse shrinkage is less than transverse shrinkage
   - Transverse shrinkage is less than longitudinal shrinkage
   - Transverse shrinkage is less than splitting shrinkage
   - Transverse shrinkage is less than transverse shrinkage
   - Transverse shrinkage is less than longitudinal shrinkage
   - Transverse shrinkage is less than splitting shrinkage

4. If 4 mm thick plates are joined in butt configuration by the submerged arc welding using 600 A current, then the longitudinal shrinkage will be...
   - L/1000
   - L/100
   - L/10
   - L/1000
   - L/10000

5. Which of the following statements is incorrect in case of transverse shrinkage of butt weld?
   - Shrinkage increases with the increase in root opening
   - Single V produces more shrinkage than double V joint
   - Shrinkage decreases as electrode diameter increases
   - Shrinkage increases as degree of constraint decreases
   - Shrinkage increases as degree of constraint decreases
   - Shrinkage increases as degree of constraint decreases
   - Shrinkage increases as degree of constraint decreases

6. Angular distortion in the butt joint can be reduced by...
   - Using a single V joint
   - Using an angular V joint
   - Using double V joint
   - Using double Y joint
   - Using single V joint
   - Using angular V joint
   - Using double Y joint

7. Distortion in a multiple restrained fillet weld is given by the following relationship...
   - $\delta = \frac{1}{2} \frac{L}{E} \alpha (1 - \frac{1}{2} \frac{L}{E} \alpha)$
   - $\delta = \frac{1}{2} \frac{L}{E} \alpha (1 - \frac{1}{2} \frac{L}{E} \alpha)$
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8. Distortion in welding occurs due to...
   - Use of excessive current
   - Use of wrong electrode
   - Oversize weld pool
   - Underfeeding welding parameters
   - Oversize weld pool
   - Underfeeding welding parameters
   - Oversize weld pool

9. What is the possible cause of a component root penetration in a butt joint?
   - Low current setting
   - Excessive root gap within the joint
   - Excessive root gap size
   - Oversize root gap size
   - Excessive root gap size
   - Oversize root gap size
   - Oversize root gap size

10. Which of the following defects with list (a) (b) and (c) and select the correct answer using the codes given below the table.
   - A. Deep cracks, B. Air holes, C. Poor weld penetration
   - D. Air holes, E. Deep cracks, F. Poor weld penetration
   - G. Deep cracks, H. Air holes, I. Poor weld penetration
   - J. Deep cracks, K. Air holes, L. Poor weld penetration
   - M. Deep cracks, N. Air holes, O. Poor weld penetration
   - P. Deep cracks, Q. Air holes, R. Poor weld penetration
   - S. Deep cracks, T. Air holes, U. Poor weld penetration