Assignment 12

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

1. Match the listed defects with (List A Type of defect) and select the correct answer using the codes given below the lists:

   A. Cracks
   B. Cavities
   C. Incompatible tolerances or parameterization
   D. Solid inclusions

   - A: D, G, C, D, E
   - B: A, D, C, D, E
   - C: A, B, F, C, D
   - D: A, B, C, D

   No, the answer is incorrect.
   Score: 0
   Accepted Answer: A: D, G, C, D, E

2. The alternative name for crater caused by
   - Cold cracks
   - Tinning
   - Star crack
   - Fatigue crack

   No, the answer is incorrect.
   Score: 0
   Accepted Answer: Star crack

3. Which of the following statements is incorrect related to overlaps and weld defects?
   - Caused by vibration in the supply voltage
   - Caused by excessive welding current
   - Caused by wrong fill-tig electrodes
   - Caused by an excessive work angle or welding angle

   No, the answer is incorrect.
   Score: 0
   Accepted Answer: Caused by vibration in the supply voltage

4. Sputter defects can be controlled during welding by
   - Adjusting the inductance control
   - Using CO2 gas
   - Increasing the arc voltage
   - Welding with no gas

   No, the answer is incorrect.
   Score: 0
   Accepted Answer: Adjusting the inductance control

5. Perforation is caused by
   - Entrapped gas in the squaring weld
   - Entrapped gas in the squaring weld
   - Entrapped gas in the squaring weld
   - None of the above

   No, the answer is incorrect.
   Score: 0
   Accepted Answer: Entrapped gas in the squaring weld

6. For metallic materials, Pressure feel varies between
   - 0.05 to 0.15
   - 0.15 to 0.25
   - 0.25 to 0.35
   - 0.35 to 0.45

   No, the answer is incorrect.
   Score: 0
   Accepted Answer: 0.25 to 0.35

7. Cyclic stresses below the elastic limit on a weld component may lead to
   - Tension failure
   - Yield failure
   - Fatigue failure
   - Shear failure

   No, the answer is incorrect.
   Score: 0
   Accepted Answer: Fatigue failure

8. Fatigue strength of material increases by
   - Increased stress in material
   - Having notches in the specimen
   - Including surface roughness
   - None of the above

   No, the answer is incorrect.
   Score: 0
   Accepted Answer: Increased stress in material

9. The joint geometry having good fatigue strength, in descending order are
   - Longitudinal butt weld, transverse butt weld, double transverse weld, cruciform weld
   - Longitudinal butt weld, double transverse weld, transverse butt weld, cruciform weld
   - Crosshead, transverse butt weld, transverse butt weld, longitudinal butt weld
   - Crosshead, transverse butt weld, transverse butt weld, longitudinal butt weld

   No, the answer is incorrect.
   Score: 0
   Accepted Answer: Longitudinal butt weld, transverse butt weld, double transverse weld, cruciform weld

10. Fatigue strength of a material is expressed in terms of
    - Fracture stress
    - Ultimate tensile stress
    - Ultimate yield stress
    - None of the above

    No, the answer is incorrect.
    Score: 0
    Accepted Answer: None of the above