Assignment 11

The due date for submitting this assignment has passed. **Due on 2018-04-11, 23:59 IST.**

Submitted assignment

1) Of the following statements, which one is incorrect with regard to Residual Stresses in welded components

- They are elastic in nature
- They are not elastic in nature
- They represent storage of energy within the body
- They must be self-balanced within the structure

**No, the answer is incorrect.**

Score: 0

**Accepted Answers:**

*They are not elastic in nature*

2) Residual stresses are of following types

- Thermal stresses and joint stresses
- Mechanical stresses and prestresses
- Macrostresses and microstresses
- Bending and compressive stresses

**No, the answer is incorrect.**

Score: 0

**Accepted Answers:**

*Macrostresses and microstresses*

3) Restraint to thermal expansion and contraction offered by other parts of the structure is termed as

- Mechanical stresses
- Metallurgical stresses
- Thermal stresses

**No, the answer is incorrect.**

Score: 0

**Accepted Answers:**

*Reaction stresses*
4) Which of the following statement is not correct regarding thermal stresses in component

- Can cause distortion of workpieces when welded
- Can cause distortion of workpieces when getting machined after welding
- May affect ductility
- Does not affect the fatigue and creep strength

No, the answer is incorrect.
Score: 0
Accepted Answers:
Does not affect the fatigue and creep strength

5) Which of the following is not a method of measurement of residual stresses in welded component

- Ultrasonic method
- Brittle coat method
- Photostress method
- Strain gauge method

No, the answer is incorrect.
Score: 0
Accepted Answers:
Ultrasonic method

6) During welding process (multipass welding), peening method for stress relieving purpose should not be applied on

- First layer
- Last layer
- Intermediate layers
- First and last layer

No, the answer is incorrect.
Score: 0
Accepted Answers:
First and last layer

7) Which one of the following stress relieving method uses oscillating or rotating wave generator coupled to the part

- Peening method
- Thermal treatment method
- Vibratory self relief method
- Flame method

No, the answer is incorrect.
Score: 0
Accepted Answers:
Vibratory self relief method

8) Which of the following parameter increases distortion?

- Deeper penetration
- Use of single pass as compared to multiple pass
9) For controlling distortion in welds, direction of welding should be

- towards the point of restraint
- away from point of maximum freedom
- towards restraint and away from point of maximum freedom
- away from point of restraint and towards point of maximum freedom

No, the answer is incorrect.
Score: 0
Accepted Answers:
away from point of restraint and towards point of maximum freedom

10) Preheating is necessary in Aluminium because of its

- High conductivity
- High melting point
- Low melting point
- Light weight

No, the answer is incorrect.
Score: 0
Accepted Answers:
High conductivity