Assignment 2

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment. Due on 2019-03-13, 23:59 IST.

1) In the autogenous fusion welding of similar metals

- Base metal and weld zone have similar microstructure
- Base metal and weld zone have similar chemical composition
- Solidification takes place by nucleation and growth mechanisms
- All of above

No, the answer is incorrect.
Score: 0
Accepted Answers:
Base metal and weld zone have similar chemical composition

2) The fuel gas used in gas welding which offers maximum temperature is

- Acetylene
- Natural gas
- Propylene
- Hydrogen

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

3) In order to increase melting capability of flame during gas welding

- Tip of flame's outer cone should be in touch with workpiece surface
- Tip of flame's inner cone should be in touch with workpiece surface
- Tip of flame's outer cone should be 5 mm away from the workpiece surface
- Tip of flame's outer cone should be 10 mm away from the workpiece surface

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5) Which one of the following coating factor value shows heavily coated electrodes

- 0.8
- 1.1
- 1.7
- 2.1

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

6) Elements in electrode coating which improve arc stability for shielded metal arc welding are 1 point

- Sodium & potassium
- Ferro-manganese
- Ferro-silicon
- All of above

No, the answer is incorrect.
Score: 0
Accepted Answers: Sodium & potassium

7) In the electrode melting rate equation, \( MR = a.I + b.I^2 \), the term that accounts for electrical resistance heating is 1 point

- a.I
- b.I^2
- Both a.I and b.I^2
- There is no term which incorporates electrical resistance heating

No, the answer is incorrect.
8) An increase in arc gap (at same current) during gas tungsten arc welding

- Decreases arc voltage
- Increases arc voltage
- Increases weld bead width
- Both b and c

No, the answer is incorrect.
Score: 0
Accepted Answers:
Both b and c

9) Which one the following is NOT a characteristic of gas tungsten arc welding?

- Clean weld
- Short arc length
- Consumable electrode
- Use of argon or helium for shielding

No, the answer is incorrect.
Score: 0
Accepted Answers:
Consumable electrode

10) Compared to argon gas, the use of helium gas for shielding in GTAW process under similar conditions offers

- Higher arc stability
- Deeper penetration
- Lower heat input
- All of above

No, the answer is incorrect.
Score: 0
Accepted Answers:
Deeper penetration