Assignment No.10

The due date for submitting this assignment has passed. Due on 2019-10-09, 23:59 IST. As per our records, you have not submitted this assignment.

1) Flux cored arc welding uses
   - Tubular electrode with flux coated on its outer surface
   - A non-consumable tubular electrode
   - Tubular electrode with flux filled inside the tube
   - A bare consumable electrode using Ar/He as shielding gas

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   Tubular electrode with flux filled inside the tube

2) A surface modification for improvement of corrosion resistance will be observed when
   - AISI 316 stainless steel surface layer applied on mild steel substrate
   - Surface layer of mild steel deposited on AISI 316 stainless steel substrate
   - Surface layer of mild steel deposited on AISI 304 stainless steel substrate
   - All of above

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   AISI 316 stainless steel surface layer applied on mild steel substrate

3) Pre-heating of filler wire during hot wire GTAW facilitates

   1 point
Weld surfacing
II (unit? unit=68&lesson=69)

Surface modification
techniques:
Weld surfacing
III (unit? unit=68&lesson=70)

Surface modification
techniques:
Laser cladding
(unit? unit=68&lesson=71)

Surface modification
techniques:
Principle of thermal spraying
(unit? unit=68&lesson=72)

Surface modification
techniques:
Flame spraying
(unit? unit=68&lesson=73)

Quiz :
Assignment
No. 10
(assessment? name=104)

Solution for
Assignment
No. 10
[unit? unit=68&lesson=118]

Less arc heat for melting of filler
Faster melting of filler
Increased deposition rate
All of above

No, the answer is incorrect.
Score: 0
Accepted Answers:
All of above

4) In non-transferred plasma arc welding technique for surface modification

Substrate is connected to positive terminal to power source
Substrate is connected to negative terminal to power source
Substrate is not a part of electric circuit
Arc is struck between substrate and electrode

No, the answer is incorrect.
Score: 0
Accepted Answers:
Substrate is not a part of electric circuit

5) The preferred overlap during laser cladding to ensure proper continuity of bonding is

0%
30%
80%
100%

No, the answer is incorrect.
Score: 0
Accepted Answers:
30%

6) The correct arrangement in descending order of energy densities during laser based processing for different applications is

Melting, Heating, Machining
Machining, Melting, Heating
Heating, Melting, Machining
Machining, Heating, Melting

No, the answer is incorrect.
Score: 0
Accepted Answers:
Machining, Melting, Heating

7) The process parameters in laser cladding are

Power and scanning speed
Arc voltage, current and scanning speed
Current and arc gap
Arc gap, arc voltage and scanning speed

No, the answer is incorrect.
Score: 0
Accepted Answers:
Power and scanning speed

8) Under the influence of heat during thermal spraying, the feedstock material particles can undergo

1 point

9) The type of defect NOT typically observed in thermal spraying is

- Complete melting
- Thermal softening
- Partial melting
- All of above

No, the answer is incorrect.
Score: 0
Accepted Answers: All of above

10) In a sound thermal spray coatings, the intra-splat structure generally consists of

- Pores
- Cracks
- Metallurgical bond
- Both a and b

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