Assignment 3

Due on 2020-02-19, 23:58 IST.

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

1. An arc is sustained between two electrodes. If voltage between electrodes must be above breakdown voltage, voltage between electrodes must be above breakdown voltage. Is the answer correct?
A. Yes, the answer is correct.
B. No, the answer is incorrect.
Score: 0 point

2. A number of limitations on the use of an igniter by electrical breakdown is:
A. High cost of igniter, low capacitance factor.
B. Equal to welding power source capacity, less than dielectric gas velocity, known as breakdown factor.
C. Equal to rate of detachment events per unit of atomic gas.
D. None of the above.
Score: 0 point

3. When the arc is carried out by short-circuiting:
A. Breakdown voltage is created, field ionization is promoted, igniters can be used, arc does not break down.
B. Field ionization is promoted, igniters can be used, arc does not break down, all the above.
C. Igniters can be used, arc does not break down, all the above.
D. None of the above.
Score: 0 point

4. An arc is ignited by direct heating not achievable for:
A. Gas tungsten arc welding, manual metal arc welding, shielded metal arc welding.
B. Gas tungsten arc welding, gas metal arc welding, shielded metal arc welding.
C. Gas tungsten arc welding, gas metal arc welding, metal inert gas welding.
D. None of the above.
Score: 0 point

5. Sustained high frequency operation is:
A. Ignition of arc between electrodes, electrode material is consumed, wire diameter is consumed, high voltage.
B. Ignition of arc between electrodes, electrode material is consumed, wire diameter is consumed, high voltage.
C. Ignition of arc between electrodes, electrode material is consumed, wire diameter is consumed, high voltage.
D. None of the above.
Score: 0 point

6. Aesthetic weakness in tungsten electrodes can be corrected by:
A. Oxide coating, decreasing the temperature of the electrode, increasing shielding gas flow, high voltage.
B. Oxide coating, decreasing the temperature of the electrode, increasing shielding gas flow, high voltage.
C. Oxide coating, decreasing the temperature of the electrode, increasing shielding gas flow, high voltage.
D. None of the above.
Score: 0 point

7. In gas tungsten arc welding, shapery tungsten electrode results in:
A. Leaking penetration, water and shallow weld pool.
B. Leaking penetration, water and shallow weld pool, decrease in welding gas velocity, increases in arc diameter.
C. Leaking penetration, water and shallow weld pool, decrease in welding gas velocity, increases in arc diameter.
D. None of the above.
Score: 0 point

8. By replacing pure argon with Ar-2 He-1 he as a shielding gas:
A. Depth of penetration increases.
B. Depth of penetration decreases.
C. Medium effect on beam on depth of penetration.
D. All of the above.
Score: 0 point

9. Addition of CO₂ shielding gas during GTA of low carbon steels:
A. Avoids cold cracking.
B. Prevents cold cracking.
C. Avoids CO₂ cracking.
D. Increase in weld depression, depth of penetration decreases.
Score: 0 point

10. Which one of the following shielding gases widely used to weld high conductive materials?
A. Helium.
B. CO₂.
C. None of the above.
D. None of the above.
Score: 0 point