

1. Тестовые задания для профессии 15.01.05 Сварщик
(электросварочные и газосварочные работы)

Welding. Arc welding

Вариант 1

Выберите правильный вариант ответа:

1. Welding is a process of joining together ... parts by heating.

- a) plastic b) metallic c) rubber

2. ... is a process when two metal parts are joined by force from a power hammer.

- a) thermit welding b) arc welding c) hammer welding

3. In ... welding, it is necessary to use a mixture of two gases.

- a) gas b) arc c) resistance

4. ... is a process when two metal parts are melted by an electric arc.

- a) thermit welding b) arc welding c) hammer welding

5. In order to create the arc, a powerful electric ... must be provided.

- a) gas b) oxygen c) current

6. The current must be at least ..., otherwise the arc will not create enough heat.

- a) 100 A b) 60 A c) 80 A

7. Resistance welding process forms a whole group consisting of many types of welding such as...

- | | | |
|--------------------|-----------------|------------------|
| a) hammer welding, | b) arc welding, | c) spot welding, |
| thermit welding | gas welding | butt welding |

8. In arc welding the workpieces are melted by ...

- a) a flame b) an electric arc c) gas

9. The transformer is used for ...

- a) supplying the necessary current b) creating flame c) joining metallic parts

10. The earth clamp is attached to the ...

- a) transformer b) holder c) workpiece

11. The ... must be moved continuously, otherwise neither the electrode nor the workpiece will melt.

- a) earth clamp b) electrode c) arc

12. Then the ... flows around the circuit and the arc appears.

- a) transformer b) current c) flame

13. An electrode rod provides the ... to join the workpieces.

- a) filler metal b) surface quality c) electric circuit

14. The tip of the electrode melts and falls onto the ...

- a) cable b) arc c) workpiece

Welding. Arc welding

Вариант 2

Выберите правильный вариант ответа:

1. Welding processes are classified according to the source of ... employed for heating.

- a) heating b) cooling c) energy

2. ... welding is a process consisting of a chemical reaction.

- a) thermit b) arc c) hammer

3. Electric ... welding process forms a whole group consisting of many types of welding.

- a) gas b) arc c) resistance

4. In gas welding a combustible gas must be mixed with...

- a) hydrogen b) oxygen c) methane

5. Hammer welding is a process in which two metal parts are joined and fused by force from ...

- a) a chemical reaction b) a power hammer c) an electric arc

6. ... is a process of joining together metallic parts by heating the place of contact to the fusion state.

- a) welding b) heating c) cooling

7. Thermit welding is used in repairing ... sections such as rails, frames.

- a) small b) middle c) large

8. In arc welding the arc is created by ...

- a) a powerful electric current b) a combustible gas c) fusion

9. For thicker workpieces, the current may be ...

- a) 80 A b) 150 A c) 250 A

10. An earth clamp is used for ...

- a) supplying the necessary current
- b) completing the electric circuit
- c) joining metallic parts

11. If the earth clamp is not securely attached to the workpiece, an arc will appear between ...

- | | | |
|-------------------|---------------------|------------------|
| a) the electrode | b) the transformer | c) the clamp and |
| and the workpiece | and the earth clamp | the workpiece |

12. To strike the arc, ... should be switched on first.

- a) the earth clamp
- b) the transformer
- c) an electric current

13. The electrode holder contains ...

- a) an earth clamp
- b) an electrode rod
- c) an electric arc

14. A welder should know ... of metal while choosing an electrode type.

- a) type and thickness
- b) pressure and source
- c) fusion state