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Courses » Joining Technologies for metals

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Unit 6 - Week 5

Register for Certification exam

Course outline

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Week 1

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Week 5

- Lec 21 - Adhesive joining
- Lec 22 - Weld bonding
- Lec 23 - Solid state joining technologies: Fundamentals
- Lec 24 - Ultrasonic welding
- Lec 25 - Diffusion welding
- Quiz : Assignment 5
- Solution for Assignment No.

Assignment 5

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment. **Due on 2019-04-03, 23:59 IST.**

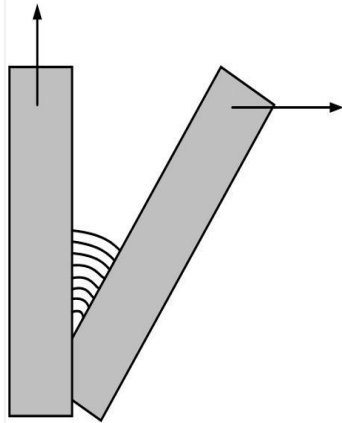
1) Adhesive bonding can be used in joining of **1 point**

- Metal to metal
- Non-metal to metal
- Structural members
- All of above

No, the answer is incorrect.
Score: 0

Accepted Answers:
All of above

2) The adhesive bonded joint configuration shown in figure is **1 point**



- Cleavage
- Tongue and groove
- Peeling

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- Adhesive application, Preparation of adhesive lap joint, Spot welding
- Preparation of adhesive lap joint, Spot welding, Adhesive application
- Spot welding, Adhesive application, Preparation of adhesive joint
- Preparation of adhesive joint, Adhesive application, Spot welding

No, the answer is incorrect.

Score: 0

Accepted Answers:

Adhesive application, Preparation of adhesive lap joint, Spot welding

4) Excessive increase in thickness of bond line, in general shear load carrying capacity of weld bonded joint, **1 point**

- Increases
- Decreases
- Remains the same
- First decreases and then increases

No, the answer is incorrect.

Score: 0

Accepted Answers:

Decreases

5) Metallurgically incompatible systems can be welded without buttering with **1 point**

- Gas metal arc welding
- Gas welding
- Solid state welding
- Gas tungsten arc welding

No, the answer is incorrect.

Score: 0

Accepted Answers:

Solid state welding

6) The process that uses chemical reactions of gas mixtures to heat substrate is **1 point**

- Resistance heating
- Induction heating
- Flame heating
- Friction heating

No, the answer is incorrect.

Score: 0

Accepted Answers:

Flame heating

7) The amount of energy to develop sound weld joints with ultrasonic welding depends on **1 point**

- Thickness of the plates to be joined
- Creep strength of the plates to be joined
- Impact toughness of the plates to be joined
- All of above

No, the answer is incorrect.

Score: 0

Accepted Answers:*Thickness of the plates to be joined*

8) The combination of plate thickness and hardness which can be easily welded with ultrasonic welding is **1 point**

- Thin sheets and hard materials
- Thick sheets and hard materials
- Thin sheets and soft materials
- Thick sheets and soft materials

No, the answer is incorrect.

Score: 0

Accepted Answers:*Thin sheets and soft materials*

9) Metallurgical continuity between two substrates is said to be established by **1 point**

- Holding two specimens together for 1 hour only
- Diffusion of atoms coupled with grain boundary formation
- Application of adhesives
- Mechanical joining of two substrates

No, the answer is incorrect.

Score: 0

Accepted Answers:*Diffusion of atoms coupled with grain boundary formation*

10) Under similar metal bonding conditions, time required for bonding will be **1 point**

- Short at higher temperature
- Least at room temperature
- Long at higher temperature
- Same for all temperatures

No, the answer is incorrect.

Score: 0

Accepted Answers:*Short at higher temperature*

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