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reviewer4@nptel.iitm.ac.in ▼

Courses » Manufacturing Guidelines for Product Design

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Unit 8 - Week 7

Register for Certification exam

Course outline

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Week 7

- Induction Welding : Plastics
- Ultrasonic Welding : Plastics
- Vibration and Spin Welding : Plastics
- Microwave Joining
- Hole making : Guidelines
- Quiz : Assignment 7

Assignment 7

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment. **Due on 2019-04-17, 23:59 IST.**

1) In Induction welding, joints must be designed in; **1 point**

- Peel
- Butt
- Shear
- All of these

No, the answer is incorrect.

Score: 0

Accepted Answers:

Shear

2) Ultrasonic welding is used for the joining of: **1 point**

- Thermoplastics
- Thermosets
- Both (a) and (b)
- None of these

No, the answer is incorrect.

Score: 0

Accepted Answers:

Thermoplastics

3) Ultrasonic frequency is around: **1 point**

- 20-30 KHz
- 20-40 KHz
- 20-60 KHz
- 20-80 KHz

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- low magnitude, high
- high magnitude, high
- low magnitude, low
- high magnitude, low

No, the answer is incorrect.

Score: 0

Accepted Answers:

high magnitude, low



5) Microwaves are electromagnetic waves with wavelengths in range of;

1 point

- 1-100 mm
- 1-1000 mm
- 1-10000 mm
- None of these



No, the answer is incorrect.

Score: 0

Accepted Answers:

1-1000 mm

6) Microwave joining is used for the joining of:

1 point

- Thermosets
- Thermoplastics
- Both (a) and (b)
- None of these

No, the answer is incorrect.

Score: 0

Accepted Answers:

Thermoplastics

7) Which type of joint is a better joint configuration for microwave joining?

1 point

- Lap joint
- Butt joint
- Both (a) and (b)
- None of these

No, the answer is incorrect.

Score: 0

Accepted Answers:

Lap joint

8) Distance from the edge of a hole to a vertical surface or another hole should be atleast _____ times the thickness of the part (where T is the sheet thickness);

1 point

- $2T+3$
- $T+3$
- Four
- Two

No, the answer is incorrect.

Score: 0

Accepted Answers:

Two

9) In which type of joining process, the coil is energized with a radio frequency electric current? **1 point**

- Ultrasonic welding
- Induction welding
- Vibration welding
- Spin welding



No, the answer is incorrect.

Score: 0

Accepted Answers:

Induction welding

10) In ultrasonic welding, greater joint strength can be obtained in case of; **1 point**

- Butt joint with unbeveled edge
- Step joint
- Lap joint
- Tongue and groove joint

No, the answer is incorrect.

Score: 0

Accepted Answers:

Tongue and groove joint

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