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reviewer2@nptel.iitm.ac.in ▼

Courses » Theory of Production Processes

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Unit 13 - Week 12

Course outline

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- Lecture 56: Weldability of metals
- Lecture 57: Weldability of steels
- Lecture 58: Weldability of cast iron

Assignment 12

The due date for submitting this assignment has passed. **Due on 2018-04-18, 23:59 IST.**

Submitted assignment

1) Increase in the hardenability of steel 1 point

- Increases weldability
- Decreases weldability
- Does not affect the weldability
- First increases and then decreases the weldability

No, the answer is incorrect.**Score: 0****Accepted Answers:***Decreases weldability*2) The Type of cast iron that has minimum weldability is 1 point

- Gray cast iron
- White cast iron
- S.G. iron
- Malleable cast iron

No, the answer is incorrect.**Score: 0****Accepted Answers:***White cast iron*3) While discussing weldability of materials, metallurgical compatibility 1 point implies that base metal and weld metal can be combined within degree of dilution

- without production of deleterious phases
- with production of deleterious phases

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Quiz :
Assignment 12

Solution of
assignment 12

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4) Which of the property of austenitic stainless steel (as compared to common carbon steels) can be considered to adversely affect its weldability **1 point**

- More electrical resistance
- Less melting point
- Large thermal conductivity
- Large thermal expansion

No, the answer is incorrect.

Score: 0

Accepted Answers:

Large thermal expansion

5) Which of the following type of stainless steel possess ductility even at very low temperature? **1 point**

- Austenitic stainless steel
- Ferritic stainless steel
- Martensitic stainless steel
- Any of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Austenitic stainless steel

6) While welding nodular cast iron, you must avoid **1 point**

- Mg loss
- Increase in nodularization
- Increase in carbon content
- Decrease in Sulfur content

No, the answer is incorrect.

Score: 0

Accepted Answers:

Mg loss

7) Post weld heat treatment of gray cast iron **1 point**

- Promotes formation of white cast iron
- Maximizes excessive cooling stresses
- Minimizes excessive cooling stresses
- Any of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Minimizes excessive cooling stresses

8) During welding of Aluminium, the challenges are posed due to **1 point**

- High value of thermal conductivity
- Oxide forming tendency
- High value of coefficient of linear expansion
- All of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

All of the above

9) Which of the following reasons can be the reason for the formation of **1 point** cracks in the welded joint.

- Poor ductility of base metal
- Rigidity of joint
- High hardenability of the material
- All of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

All of the above

10) Overlap is a type of welding defect that can be classified under the **1 point** category of

- Imperfect shape/profile
- Solid inclusions
- Incomplete penetration
- Cavities

No, the answer is incorrect.

Score: 0

Accepted Answers:

Imperfect shape/profile

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