Assignment 1

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

**1) Weldability of metals is function of**

(i) Process
(ii) Purpose
(iii) Fabrication condition

- I only
- I and II
- II & III
- All of above

No, the answer is incorrect.
Score: 0
Accepted Answers: All of above

**2) Micro level plastic deformation between faying surfaces takes place in**

- Ultrasonic welding
- Fusion welding
- Friction stir welding
- Gas metal arc welding

No, the answer is incorrect.
Score: 0
Accepted Answers: Ultrasonic welding

**3) Weldability of a metal is considered good if it is welded with**

(i) Higher effort
(ii) Higher quality
(iii) Lower cost

- All of above

No, the answer is incorrect.
Score: 0
Accepted Answers: All of above
4) Flame cutting is not preferred for edge preparation of hardenable steels because of

- Formation of hard and brittle structure
- Formation of hard and ductile structure
- Formation of soft and ductile structure
- Formation of soft and high strength structure

No, the answer is incorrect.
Score: 0
Accepted Answers:


5) Needle type precipitates or intermetallic compounds if formed at particle-matrix interface near the weld zone, then it may lead to

(i) Easy crack nucleation
(ii) Increase in ductility
(iii) Reduction in toughness
(iv) Increase in fatigue resistance

- I and III
- II and III
- II, III and IV
- All of above

No, the answer is incorrect.
Score: 0
Accepted Answers:


6) Generally, the different zones formed in friction stir weld joint of work hardenable steel in an annealed condition in increasing order of their average hardness are

- Base metal, weld zone, HAZ
- Weld zone, HAZ, base metal
- Base metal, HAZ, weld zone
- HAZ, weld zone, base metal

No, the answer is incorrect.
Score: 0
Accepted Answers:


7) High residual stress is induced during fusion welding if weld metal has

- Low yield strength and high ductility
- High yield strength and low ductility
- High yield strength and high ductility
- Low yield strength and high ductility

No, the answer is incorrect.
Score: 0
8) Work hardening of metals like steels results in

- Increase in yield strength and decrease in ductility
- Decrease in yield strength and increase in ductility
- Increase in yield strength and increase in ductility
- Decrease in yield strength and decrease in ductility

No, the answer is incorrect.

Score: 0

Accepted Answers:
Increase in yield strength and decrease in ductility

9) Plastic deformation based welding as compared to fusion welding in general results in

- Narrow width of heat affected zone
- Higher strength
- Favourable grain structure
- All of above

No, the answer is incorrect.

Score: 0

Accepted Answers:
Narrow width of heat affected zone

10) A weld joint is said to be defective if it contains

- Pores
- Inclusions
- Solidification cracks
- All of above

No, the answer is incorrect.

Score: 0

Accepted Answers:
All of above