reviewer4@nptel.iitm.ac.in ▼ Courses » Weldability of Metals FAQ Announcements Course Ask a Question **Progress** Unit 2 - Week 1 Register for **Assignment 1 Certification exam** The due date for submitting this assignment has passed. Due on 2019-03-13, 23:59 IST. Course As per our records you have not submitted this outline assignment. 1) Weldability of metals is function of How to access 1 point the portal (i) Process (ii) Purpose Week 1 (iii) Fabrication condition Understanding I only Weldability: Introduction I I and II Understanding II & III Weldability: All of above Introduction II Metal No, the answer is incorrect. Properties & Score: 0 Weldability I **Accepted Answers:** All of above Properties & Weldability II 2) Micro level plastic deformation between faying surfaces takes place in 1 point Weldability of Ultrasonic welding Work Hardenable Fusion welding Metals Friction stir welding Quiz: Assignment 1 Gas metal arc welding Solution for No, the answer is incorrect. Assignment No. Score: 0 **Accepted Answers:** Week 2 Ultrasonic welding 3) Weldability of a metal is considered good if it is welded with 1 point Week 3 (i) Higher effort (ii) Higher quality Week 4 (iii) Lower cost © 2014 NPTEL - Privacy & Terms - Honor Code - FAQs -In association with A project of

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11220		Accepted Answers:	
Text Transcript		II and III	
Interaction Session		4) Flame cutting is not preferred for edge preparation of hardenable steels because of	1 point
		Formation of hard and brittle structure	R
		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: Formation of hard and brittle structure	
		5) Needle type precipitates or intermetallic compounds if formed at particle-matrix interface near the weld zone, then it may lead to	1 point
		(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: I and III	
		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	n 1 point
		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:	
		Base metal, HAZ, weld zone	
		7) High residual stress is induced during fusion welding if weld metal has	1 point
		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	

Accepted Answers: High yield strength and low ductility	
8) Work hardening of metals like steels results in	1 point
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	<u></u>
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 1 poi
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	1 point
Pores	
Inclusions	
Solidification cracks	
All of above	
No, the answer is incorrect. Score: 0	
Accepted Answers: All of above	
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