reviewer4@nptel.iitm.ac.in ▼ Courses » Weldability of Metals Announcements Course Ask a Question **Progress** Unit 6 - Week 5 Register for **Assignment 5 Certification exam** The due date for submitting this assignment has passed. Due on 2019-04-03, 23:59 IST. Course As per our records you have not submitted this outline assignment. 1) Typical microstructure of HSLA steel consists of How to access 1 point the portal Coarse ferrite and pearlite Week 1 Fully austenitic structure Fine ferrite, pearlite, bainite/martensite Week 2 Ferrite and austenite Week 3 No, the answer is incorrect. Week 4 Score: 0 **Accepted Answers:** Week 5 Fine ferrite, pearlite, bainite/martensite Weldability of 2) With increase in thickness of HSLA plates, the minimum pre-heat temperature should 1 point High Strength Low Alloy Increase Steels Decrease Weldability of Q&T Steels- I First increase then decrease Weldability of Remains constant Q&T Steels- II No, the answer is incorrect. Weldability of Score: 0 Q&T Steels- III **Accepted Answers:** Weldability of Increase Q&T Steels- IV 3) Steels in Q and T conditions typically have 1 point Quiz : Assignment 5 Bainitic & ferritic microstructure Solution for Assignment No. Bainitic & austenitic microstrucrure Bainitic & martensitic microstrucrure Week 6 Ferritic & austenitic microstructure © 2014 NPTEL - Privacy & Terms - Honor Code - FAQs -In association with A project of

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Text Transcript		Increase yield strength	
	ce De	Increase notch toughness	
Interaction Session		Reduction in yield strength	
		Increase in ultimate tensile strength	
		No, the answer is incorrect.	
		Score: 0	D.
		Accepted Answers: Reduction in yield strength	
		5) Jominy quench test can be used to	1 point
		Determine hardenability	
		Estimate extent of hardness variation in weldements	
		Determine impact toughness	
		Both a and b	-
		No, the answer is incorrect.	
		Score: 0	
		Accepted Answers: Both a and b	
		6) With increase in tempering temperature, in case of Q&T steel welded joints, the hardness	1 point
		Decreases continuously	
		Increases continuously	
		Decreases up to a certain temperature then increases due to carbide formation and to decreases again	hen
		Increases up to a certain temperature then decreases due to carbide formation and the increases again	nen
		No, the answer is incorrect. Score: 0	
		Accepted Answers:	
		Decreases up to a certain temperature then increases due to carbide formation and then dec	creases aga
		7) The most favourable microstructure in welding of Q&T steels is	1 point
		Ferrite	
		Ferrite + upper Bainite	
		Untempered Martensite	
		Ferrite+Lower Bainite+Tempered martensite	
		No, the answer is incorrect. Score: 0	
		Accepted Answers:	
		Ferrite+Lower Bainite+Tempered martensite	
		8) Use of electron beam welding on Q&T steels is limited to 0.5 inch thick plates due to	1 point
		Embrittlement	
		Martensitic transformation in HAZ	
		Martensitic transformation in weld zone	
		All of above	
		No, the answer is incorrect.	

Score: 0	
Accepted Answers:	
All of above	
9) The important process parameters for air plasma cutting process are	1 point
Current, air pressure and welding speed	
Current, voltage and welding speed	
Current, electrical resistance and welding speed	<u></u>
All of above	믔
No, the answer is incorrect.	
Score: 0	
Accepted Answers:	
Current, air pressure and welding speed	暴
10)Gas cutting is not used for Q&T steels due to	1 point
Low heat input	<u>~~</u>
High cooling rate	
Deterioration of mechanical properties such as yield strength and notch toughness	
All of above	
No, the answer is incorrect.	
Score: 0	
Accepted Answers:	
Deterioration of mechanical properties such as yield strength and notch toughness	
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