WELDING INSPECTION STEELS - COURSE REF. WIS 5

MULTIPLE-CHOICE QUESTION PAPER (MCQ.001)

Name:

Answer all questions.				
A1.	. Wh	When "hydrogen control" is specified for a manual metal arc welding project the electrode would normally be:		
	(a)	Cellulosic ?		
	(b)	Iron oxide ?		
	(c)	Acid ?		
	(a)	Basic ?		
A2.	 You would with certainty recognise a hydrogen controlled flux covered electrode from its: 			
	(a)	Colour ?		
	(b)	Length ?		
	(c)	Trade Name ?		
	(d)	AWS/BS639 Code Letter ?		
АЗ.	When manual metal arc welding is being carried out on an open construct site, which group of welders are the most likely to require continuous monitoring?			
	(a)	Concrete shuttering welding teams ?		
	(b)	Pipe welding team ?		
	(c)	Plater welders ?		
	(d)	Plant maintenance welders ?		

	A4.		notice manual metal arc electrodes, stripped of flux, are being used as filler for TIG welding. You would object because :
		(a)	It is too expensive?
		(p)	The wire would be too thick?
		(c)	The weld metal composition may be wrong?
-		(d)	The wire is too short?
	A5.	When	n open site working, serious porosity in metal arc welds is brought to your ition. What would you investigate?
		(a)	Electrode type ?
		(p)	Power plant type ?
		(c)	Electrode storage ?
		(d)	Day temperature ?
	A6.	0.6%	steel composition in a structural contract is changed from 0.15% carbon, manganese, to 0.2% carbon, 1.2% manganese. Might this influence the ence of :
		(a)	Porosity ?
		(b)	Cracking in the weld area ?
		(c)	Undercut for fillet welds ?
		(d)	Lack of root fusion defects ?
	A7.	One	of the following alloys is non-magnetic. Which?
		(a)	4.0% Chromium molybdenum
		(ď)	12.0% Chromium
		(c)	Austenitic Stainless Steel
		(d)	9.0% Nickel Steel

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A8.	Whei	n TIG welding Austenitic stainless steel pipe, Argon gas backing is called
		is to:
	(a)	Prevent oxidation ?
	(p)	Prevent underbead cracking?
	(c)	Prevent porosity ?
	(d)	Control the penetration bead shape ?
A9. Pre-heating a Carbon steel manual metal arc minimise the risk of :		heating a Carbon steel manual metal arc welding is carried out to mise the risk of:
	(a)	Scattered porosity ?
	(ċ)	Worm hole porosity?
	(c)	Parent metal cracking?
	(d)	Lack of penetration ?
A10.	In UK a fille	practice, BS499 Part 2 specifies that the drawing dimension quoted for tweld is the :
	(a)	Leg length ?
	(b)	Actual throat thickness ?
	(c)	Weld width ?
A11.	 For open site manual metal welding the following equipment is availal would you choose for safe working? 	
	(a)	Single operator transformer ?
	(b)	Multi operator transformers ?
	(c)	AC/DC composite power unit ?
	(d)	Diesel engine driven motor generator ?

A12. If submerged arc welding is to be used to be most critical of:		omerged arc welding is to be used to make butt welds, which would you ost critical of:
	(a)	The root gap tolerance ?
	(Ġ)	The angle of preparation ?
	(c)	The root face width?
	(d)	The gas cut finish?
A13.	Durin	ig CO₂ welding, the arc length is most likely to be affected by :
	(a)	The wire diameter ?
	(b)	The current return connections ?
	(c)	The gas flow rate?
	(d)	The torch to work angle?
A14.	Prehe	eating for arc welding applies to :
	(a)	Assembly welding only ?
	(b)	Assembly and tack welding ?
	(c)	Joints over 25mm thick only ?
	(d)	Cruciform welds only ?
A15.	You s cone.	see a welder using an oxy-acetylene flame with a long feathered inner. What would be the effect of this on a carbon steel.
	(a)	The weid could be hard and brittle?
	(b)	The weld metal could be too soft?
	(c)	There will be no effect on the weld?
	(d)	The weld will have undercut?

A16.	A wei	der qualification test is to verify :
ı	(a))	The skill of the welder?
	(p)	The quality of the materials ?
	(c)	The non-destructive test procedures ?
	(d)	The manufacturing methods?
A17.		ricating procedure calls for fillet welds to be "blended in" by grinding. This nfluence:
	(a)	H.A.Z. cracking ?
	(b)	Fatigue life ?
	(c)	Residual stress ?
	(d)	Yield strength?
A18.	Bend weld.	test specimens have been taken from a 25mm thick carbon steel but Which would show lack of inter-run fusion :
	(a)	Side bend ?
	(b)	Root bend ?
	(c)	Face bend ?
	(d)	Guided bend ?
A19.	Lame!	llar tearing has occurred in a steel fabrication. BEFORE welding could it been found by :
	(a)	X-ray examination ?
	(d)	Dye penetrant ?
	(c)	Ultrasonic inspection ?
((p)	It would not have been found by any inspection method?

- A20. You are to oversee the arc welding of some machined fittings and find they are cadmium plated. Would you:
 - (a) Permit it to proceed?
 - (b) Permit it to proceed with fume extraction?
 - (c) Stop the operation at once ? !
 - (d) Advise the welder to drink milk and proceed?