

1.	The s	e sequence of operation of a circuit can be determined from what kind of drawing?				
	$\bigcirc$	Connection diagram	$\bigcirc$ B	Block diagram		
	C	Schematic diagram	$\bigcirc$	Wiring diagram		
2.	. What is the minimum and maximum hydrostatic relief valve pressure?					
	A	375 psi minimum and 500 psi maximum	$\bigcirc$ B	100 psi minimum and 300 psi maximum		
	<u>C</u>	250 psi minimum and 400 psi maximum	D	500 psi minimum and 600 psi maximum		
3.	. Where do you measure the flue gas temperature?					
	$\bigcirc$	In the combustion chamber.	$\bigcirc$ B	At the exhaust of the boiler.		
	C	Immediately upstream of the draft hood or barometric draft regulator.	D	Near the fuel supply line.		
4.	At many work sites, the proper voltage is not available to power all tools. To correct the problem					
	use a	··	_			
	$\bigcirc$	power strip	B	step-down transformer		
	$\bigcirc$	voltage regulator	D	battery charger		
5.	What is the first thing boilermaker should do before opening a drum					
	$\bigcirc$ A	Inspect the drum for leaks and damage	$\bigcirc$ B	Ensure the drum is painted and clean		
	C	Verify the drum is lock and blind	D	Check the weight of the drum before opening		
6.	the m	the maximum steaming capacity of a boiler shall be based on the:				
	$\bigcirc$ A	ability of the fireman	$\bigcirc$ B	temperature of ht boiler feed water		
	(C)	type of boiler under test	D	capacity of the fuel burning equipment, air supply, draft, etc.		

7.	. The control designed as a safety back up, should the operating fail is:				
	$\bigcirc$	A low limit control	$\bigcirc$	An operating pressure control	
	0	A high limit control	$\bigcirc$	Neither	
8. The flow rate of water passing through a heating coil of an air handler is cont				an air handler is controlled by the:	
	A	aquastat on the water heater	$\bigcirc$ B	mixing valve on the domestic hot water system	
	(C)	mixing valve on the heating loop	D	balancing valve on the heating loop	
9.	9. Cooling units that cool building spaces are designed to heat from the air.				
	A	absorb	$\bigcirc$	sense	
	(C)	condense	D	release	
10.	How	do you tighten a head properly on an excha	nger		
	A	Tighten in a circular pattern	$\bigcirc$	Tighten only the corners first	
	<u>C</u>	Tighten until you hear a click	D	Tighten in a star pattern	
11.	. How are air blowers that provide ventilation to a crew working in a tower normally set up				
	A	Blowers are installed outside the tower	$\bigcirc$ B	Blowers are set to blow air out of the tower	
		Blowers are place in the top and bottom mainway with the air blowing in the mainway in the middle is left open	D	Blowers are placed only at the bottom of the tower	
12.	how	is a burner orifice cleaned?			
	$\bigcirc$	with a small file	$\bigcirc$	with a min hand drill set	
	C	soak it in non-oily solvents and then blow air through it	D	with a stiff brass bristle brush	
13.	3. What safety control protects a steam boiler if the condensate pump fails to return water to the boiler?				
	$\bigcirc$	Low pressure limit control	$\bigcirc$	Flame safeguand control	
	<b>C</b>	Low water cut off	$\bigcirc$	High pressure limit control	

1281.	1. P.A.S.S. stands for:				
	$\bigcirc$	Point, Aim, Sweep, Squeeze.	B	Pull, Aim, Squeeze, Sweep.	
	(C)	Push, Activate, Squeeze, Stop.	$\bigcirc$	Neither	
1282.	Circu	alators are never controlled by			
	A	a pressure-relief valve.	$\bigcirc$	an aquastat.	
	<u>C</u>	the burner coming on.	D	the boiler electrical power.	
1283.	Wha	t is the minimum length of a hose connector	that ha	s an inside diameter of 1 ½-inches?	
	A	10 inch	$\bigcirc$	14 inch	
	(C)	8 inch	$\bigcirc$	12 inch	
1284.	HSS	shaper tool can resist heat at about			
	$\bigcirc$	1200 Degree Centigrade	$\bigcirc$ B	1000 Degree Centigrade	
	C	600 Degree Centigrade	D	800 Degree Centigrade	
1285.	Then	mistors are solid state devices that can change	ge resi	stance with	
	$\bigcirc$ A	condensation	$\bigcirc$	current	
	C	temperature	D	pressure	
1286.	286. What is the maximum machining length in a CNC lathe?				
	A	245 mm	$\bigcirc$ B	320 mm	
	(C)	200 mm	$\bigcirc$	340 mm	
1287.	7. Which of the following statements is true for cast iron sectional boilers?				
	$\bigcirc$ A	Can be expanded in size	$\bigcirc$ B	These boilers do not require water	
	<u>C</u>	Cast iron sectional boilers have fire tubes	D	None of the above	
1288.	3. A safety valve test performed to determine if a safety valve opens at the proper pressure within allowable tolerances.				
	A	Pop Test	$\bigcirc$ B	Lit Splint Test	
	(C)	Limewater Test	$\bigcirc$	Try Lever Test	

1289.	which	n type of combustion is when all fuel is burne	ed usin	g only the minimal amount of excess air
	A	explosive combustion	$\bigcirc$	exothermic reaction
	C	complete combustion	$\bigcirc$	partial combustion
1290.		n using a steel hanger to support copper pipe ther side of the hanger?	e, the	steel hanger must be insulated by
	$\bigcirc$ A	2 inches	$\bigcirc$	4 inches
	C	1 inch	$\bigcirc$	1/2 inch
1291.	What	t types of appliances must use a flexible meta	al con	nector?
	A	Appliances that operate solely on battery power.	В	Appliances that vibrate, expand and contract or other movements that could damage a rigid connection.
	<u>C</u>	Appliances that require a constant power supply without movement.	D	Appliances that are permanently installed and do not move.
1292.		eak occurs in the propane line between the far that must be taken?	irst and	d second stage regulator, what is the first
	A	Call emergency services immediately	$\bigcirc$	Check the pressure gauge on the tank
	(C)	Open all windows and doors	D	Shut off the valve at the outlet of Tank
1293.		neating of oil in the storage tanks shall be by, or by means of heaters.	means	s of using low pressure or
	A	Pipes, cold air, gas, solar	$\bigcirc$	Fans, hot air, electric, geothermal
	$\bigcirc$	Tanks, warm oil, diesel, propane	D	Coils, hot water, steam, electric
1294.	94. The initial pass of a weld that requires multiple passes is called the			
	A	Filler pass	$\bigcirc$	Final pass
	$\bigcirc$	Surface pass	D	Root pass