

Steamfitter Pipefitter

11. Which of the following is true with respect to Nickel 200?
- (A) It is a general purpose material for applications that require resistance to heat and corrosion
- (B) It has a high resistance to hydrochloric and sulfuric acid under reducing conditions.
- (C) It has excellent resistance to most acids including strong oxidizers such as ferric and cupric chlorides.
- (D) It one of the few metals that can be used with hot string solutions of magnesium chloride.
- (E) It has high resistance to caustics and high temperature halogens.
12. A steam system could have a large amount of heat loss per foot of pipe. In an effort to reduce this you would:
- (A) insulate the piping.
- (B) install the piping at a greater incline
- (C) preheat the piping
- (D) increase the temperature of the steam.
13. When purging a stainless steel line for welding, where should Argon gas be introduced?
- (A) At the low point
- (B) Inside the pipe at the joint.
- (C) At the high point.
- (D) Outside the pipe at the joint
14. If the piping system you install deviates from the engineered drawings, what procedure should be followed?
- (A) Write down all the changes and store them in a safe place for future reference.
- (B) Make a mental note of all the changes and be prepared to present them at the weekly sight meeting.
- (C) Document all as-built alterations and submit them to the engineer
- (D) Write down all the changes and send it to your company supervisor.
15. What is the minimum size copper piping, in inches, permitted for use with medical gas?
- (A) 1/4
- (B) 1/2
- (C) 1
- (D) 3/4

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16. It is common practice to install insulating unions when connecting hot water tanks to metallic piping to:
- (A) protect the tank from electrolytic corrosion.
 - (B) reduce water hammer.
 - (C) keep the water hot.
 - (D) avoid thermal shock.
17. When testing piping and a hydrostatic test is not practical, can a pneumatic test be performed?
- (A) Approval of the Safety Codes Officer and acceptance from the owner.
 - (B) Approval of the Safety Codes Officer and site superintendent.
 - (C) Because of the hazards involved a pneumatic test will not be permitted.
 - (D) Approval of the Safety Codes Officer is required.
18. How and shackles and pins stored when a job is complete
- (A) Replace worn pins with bolts and store together in a clean dry environment
 - (B) Replace worn pins with bolts and keep in an accessible rigging box
 - (C) Remove pins from shackles and keep in an accessible rigging box
 - (D) Place pins in shackles and store in a clean dry environment
19. Steam piping for a Cast Iron Sectional steam boiler has been replaced with new A105 pipe. Before the boiler will run properly, which of the following procedures will be required?
- (A) An operational boiler start-up is required
 - (B) A flue gas analysis is required.
 - (C) Apply 150 psig test on boiler and system.
 - (D) A clean and flush is required.
20. Which of the following plastic pipe types is designed for hot or cold water distribution systems?
- (A) PEX
 - (B) PE
 - (C) AL
 - (D) ABS

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21. A pipe is being suspended from a concrete structure using 1/2-in. wedge type female inserts (expansion shield) for supports. What is the procedure for installing the inserts after drilling the correct size hole
- (A) Place the insert and tighten the locking nut (B) Place the insert and set the wedge
- (C) Apply epoxy and install the anchor (D) Insert the anchor and remove the locking nut
22. In comparing 1:20 to 1:200 drawing ratio on a scale rule, which statement is correct?
- (A) The 1:20 drawing scale will cover the same as the 1:200 drawing scale. (B) The 1:200 drawing scale will cover 10 times more area than the 1:20 drawing scale
- (C) The 1:200 drawing scale will cover 20 times more area than the 1:20 drawing scale. (D) The 1:20 drawing scale will cover 10 times more area than the 1:200 drawing scale
23. Which reducer produces a center discharge?
- (A) Eccentric (B) Butt Weld
- (C) Concentric (D) Funnel
24. Coking of a heat exchanger:
- (A) can be eliminated with lime. (B) can be eliminated.
- (C) is not always possible to eliminate. (D) can be reduced with vibration of the unit.
25. When added in small amounts to an inert gas like argon, oxygen will:
- (A) increase the undercut. (B) decrease the welding performance.
- (C) decrease puddle fluidity. (D) increase puddle fluidity.
26. If maximum resistance to oxidation is required you would use what type of filler metals?
- (A) nickel (B) If maximum resistance to oxidation is required you would use what type of filler metals?
- (C) cobalt (D) gold

