

Steamfitter Pipefitter

Goodluck!

1. How far is a drip pan terminated above a flat roof
 - (A) Cut on 45° and 7 feet
 - (B) Cut on 90° and 5 feet
 - (C) Cut on 60° and 8 feet
 - (D) Cut on 30° and 10 feet
2. The minimum outlet on a 2 inch safety valve
 - (A) 1 1/2 inches
 - (B) 1 inch
 - (C) 2 1/2 inches
 - (D) 3 inches
3. The most common method to join FRP
 - (A) Butt and strap
 - (B) Probe and Float
 - (C) Cutting plane line
 - (D) Lock shield
4. Best sling for lifting fibreglass
 - (A) 2" wide steel chain sling
 - (B) 3" wide polyester strap
 - (C) 4" wide nylon web sling
 - (D) 5" wide cotton rope
5. What is the first step when preparing for an air test
 - (A) Fill the system with water to check for leaks
 - (B) Calibrate the pressure gauges before starting the test
 - (C) Disconnect all power sources to the testing equipment
 - (D) Install safety valve on main line
6. When transitioning pipe for every 1mm transitioned grind back how much
 - (A) 5mm
 - (B) 1mm
 - (C) 4mm
 - (D) 2mm

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7. A pipe is being suspended to a concrete structure with a 5/8" wedge type and stub fasteners for supports. What is the correct procedure for installing an expanding type anchor
- (A) Use a hammer to drive the anchor into place (B) Cut the pipe to length and paint it
- (C) Attach the pipe directly to the wall without anchors (D) Drill correct size hole, insert anchor and tighten locking nut
8. What is the sequence of components before a receiver in a single stage compressor system
- (A) Moisture separator, receiver, compressor (B) After cooler, moisture separator, receiver
- (C) Compressor, condenser, evaporator (D) Receiver, filter, expansion valve
9. Type of block that is designed to change the angle of pull for wire rope
- (A) Spring Hanger (B) Lock Wire
- (C) Reverse Return (D) Snatch Block
10. The two pipe reverse return system is preferred because
- (A) It lessens the possibility of short circuiting (B) It allows for easier maintenance and repairs
- (C) It simplifies the installation process significantly (D) It increases the overall efficiency of the system
11. What are the order of components in a hydraulic system
- (A) Reservoir, pump, safety valve, directional control valve, hydraulic ram (B) Safety valve, reservoir, pump, hydraulic motor, actuator
- (C) Directional control valve, hydraulic ram, pump, reservoir (D) Pump, reservoir, actuator, filter, pressure gauge
12. Why are gauges found upstream and downstream of a strainer
- (A) To see if strainer is getting clogged (B) To ensure the strainer is properly installed
- (C) To monitor the flow rate of the system (D) To measure the temperature of the fluid passing through

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20. Max allowable working pressure for Acetylene is

- (A) 5 PSI
- (B) 30 PSI
- (C) 20 PSI
- (D) 15 PSI

21. When installing 25 feet of two tier fin vector baseboard with a rating of 6.7 EDR/foot, how much heat is available?

- (A) 40 200 Btu
- (B) 29 400 Btu
- (C) 28 800 Btu
- (D) 47 250 Btu

22. A 45 degree offset has a travel of 200 mm.

Calculate the run of the offset.

- (A) 14.4 mm
- (B) 283 mm
- (C) 141 mm
- (D) 21.5 mm

23. A sump pump in a refinery has become very loud and it is clear that it will need to be removed and replaced. The pump is located at the bottom of the sump, which is 1 meter (39.4") deep. If the correct pump and materials are available, what special hazards must be accounted for, before replacing the pump?

- (A) A lockout and a confined space entry permit are required
- (B) A lock out is required.
- (C) No special hazard precautions are required.
- (D) A lock out, a confined space entry permit, and a hot permit are required.

24. What is the primary purpose of soldering flux?

- (A) Provide a good finish.
- (B) Prevent oxidation.
- (C) Remove impurities.
- (D) Promote capillary action.

25. At what pipe size does standard weight pipe maintain a constant wall thickness?

- (A) 300 mm
- (B) 200 mm
- (C) 250 mm
- (D) 350 mm

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26. A common sealant that is applied to the pipe threads before a connection is known as what?

- (A) Pipe dope
- (B) Pipe bond
- (C) Pipe putty
- (D) Pipe glue

27. On a high pressure steam boiler with a safety valve set at 30psi, what is the recommended range for the pressure gauge?

Imperial Metric

- A. 0 to 30 psi A. 0 to 210 kPa
- B. 0 to 60 psi B. 0 to 420 kPa
- C. 30”Hg to 30 psi C. 760 mm Hg to 210 kPa
- D. 30”Hg to 60 psi D. 760 mm Hg to 420 kPa

- (A) d
- (B) b
- (C) a
- (D) c

28. What level of current on the human body in milli-amps gives a painful shock and the person cannot let go?

- (A) 100-200
- (B) 8-15
- (C) 20-75
- (D) 15-20

29. The type of solar collection system that uses a concentrated saline solution that solidifies at temperatures below 32 degrees Celsius is the:

- (A) direct gain system
- (B) passive solar heating system.
- (C) active solar energy system.
- (D) heat of fusion system.

30. What letters are standard steel pipe identified as?

- (A) HX
- (B) XH
- (C) STAD
- (D) STD

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31. What is the major difference between a thermocouple and a thermopile?
- (A) The thermopile is physically a smaller device. (B) The thermopile generates a smaller voltage.
- (C) The thermopile generates a higher voltage. (D) The thermopile can only be used residential appliance.
32. Why would aluminum and tin not be a good candidate for silver brazing?
- (A) They would not be good because the brazing would cause a color disfiguration (B) They would not be good because they are too expensive.
- (C) They would not be good because the silver brazing would not stick to those metals. (D) They would not be good because they have a low melting point.
33. Flow measurement using the vena contracta method is limited to pipe sizes _____ inches and larger.
- (A) 2.5 (B) 4
- (C) 1.5 (D) 6
34. What is the Arc Flash hazard/risk category for removal of electrical bolted covers to exposed bare energized parts on equipment 240 Volt to 600 Volt?
- (A) 3 (B) 2
- (C) 0 (D) 1
35. A scaffold must be designed and constructed to support at least ____ times the load that may be imposed off of it.
- (A) 5 (B) 3
- (C) 4 (D) 2