

Sprinkler Fitter



1. A standpipe with a 2 1/2 pressure regulating valve shall be equipped with a _____ minimum drain riser

<input type="radio"/> (A) 6"	<input type="radio"/> (B) 4"
<input type="radio"/> (C) 1"	<input checked="" type="radio"/> (D) 3"
2. When assembling mechanical joint pipe , the gasket must first be

<input checked="" type="radio"/> (A) Dipped in soapy water	<input type="radio"/> (B) Placed over the bolts
<input type="radio"/> (C) Trimmed around the edges	<input type="radio"/> (D) Neither
3. Pumps shall furnish not less than _____ of the total rated head.

<input type="radio"/> (A) 50%	<input checked="" type="radio"/> (B) 65%
<input type="radio"/> (C) 100%	<input type="radio"/> (D) 80%
4. How much clearance around pipe in pump house passing through walls?

<input type="radio"/> (A) 2 inches	<input type="radio"/> (B) 4 inches
<input type="radio"/> (C) 5 inches	<input checked="" type="radio"/> (D) 1 inch
5. Which nozzle is the most effective appliance for generating low-expansion foam

<input type="radio"/> (A) Fog nozzles	<input type="radio"/> (B) Smooth bore nozzle
<input checked="" type="radio"/> (C) Air-aspirating foam nozzle	<input type="radio"/> (D) Neither
6. A sprinkler system employing automatic sprinklers that are attached to a piping system that contains air that might or might not be under pressure, with a supplemental detection system installed in the same areas of the sprinklers.

<input type="radio"/> (A) Multicycle System	<input type="radio"/> (B) Wet Pipe Sprinkler System
<input checked="" type="radio"/> (C) Preaction Sprinkler System	<input type="radio"/> (D) Pipe Schedule System

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7. Which of the following terms is used to describe a mechanical system that pressurizes areas of a building with fans to limit smoke movement when there is a fire?
- ☐ (A) Smoke damper ☒ (B) Smoke control
- ☐ (C) Smoke current ☐ (D) Smoke management
8. How does a bimetallic strip work as a heat detector switch?
- ☒ (A) The strip bends unevenly in response to heat, closing a contact ☐ (B) The strip melts at a certain temperature, interrupting a circuit
- ☐ (C) The strip creates a magnetic field when heated, activating a switch ☐ (D) Electrical resistance through the strip increases when the strip is exposed to heat
9. Tube cutters can be used to cut pipe up to _____.
- ☒ (A) 4" in diameter ☐ (B) 2" in diameter
- ☐ (C) 1" in diameter ☐ (D) 3" in diameter
10. applications for deluge systems include:
- ☐ (A) hospitals ☒ (B) flammable liquid storage areas
- ☐ (C) airline terminals ☐ (D) all of the above
11. During sensitivity testing, how long should an accelerator hold its pressure before it trips?
- ☒ (A) 10 minutes ☐ (B) 7 minutes
- ☐ (C) 60 seconds ☐ (D) 30 minutes
12. ____ Help determine the available water in a standpipe system
- ☐ (A) Fire alarm panel ☐ (B) Hydrant flow meter
- ☐ (C) Water flow indicator ☒ (D) Standpipe pressure gauge
13. For sprinkler systems, all pipe needs to be marked along its length by the manufacturer. Information should include...
- ☒ (A) Manufacturers name, model designation, or schedule ☐ (B) Model designation and maximum working pressure
- ☐ (C) Number of fitting allowed per linear foot ☐ (D) All of above

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1014. Pump Power Selection (Travel System)

- ☒ A $P = Q \times TDH / (360 \times E_p)$, where P is power requirement (kW)
- ☐ B $P = t_{dh} - q \times e_p$, where p is efficiency ratio (%)
- ☐ C $P = q / (t_{dh} \times 360)$, where p is flow rate (l/s)
- ☐ D $P = q + t_{dh} + e_p$, where p is total energy consumption (kwh)

1015. a pit must be large enough to hold all of the equipment to be installed into it. in addition it should

- ☐ A be monitored at all times
- ☐ B be located within 10 ft of the building and have a concrete floor of at least 4 in
- ☒ C have an access port adequate to allow servicing and replacement of the devices within it
- ☐ D none of the above

1016. A listed _____ shall be permitted to help meet the requirements of water delivery to the inspectors test valve?

- ☐ A air vent
- ☒ B quick opening device
- ☐ C main drain
- ☐ D inspectors test valve

1017. Calculation for sprinkler discharge based on spacing, application rate, and nozzle characteristics

- ☐ A Average Pressure Head
- ☐ B Hose Length Determination
- ☒ C Nozzle Discharge Formula
- ☐ D Neither

1018. A _____ valve and isolation valve shall be installed in the discharge pipe of the jockey pump.

- ☐ A indicating
- ☐ B reducing
- ☐ C relief
- ☒ D check

1019. the piping in a preaction system:

- ☐ A has special sprinkler spacing requirements
- ☐ B all of the above
- ☒ C is equipped with standard sprinklers
- ☐ D is installed with special hangers

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1020. A drain valve or automatic ___ shall be located in the pipeline at a low point between the valve and the header.
- ☐ (A) ball valve ☐ (B) relief valve
☒ (C) ball drip ☐ (D) reducing valve
1021. Panel construction and other construction where beams, trusses and other members impede heat flow or water distribution in a manner that materially affects the ability of sprinklers to control or suppress fire is known as...
- ☒ (A) Obstructed construction ☐ (B) Supervisory devices
☐ (C) Warehouse racking ☐ (D) Recessed sprinkler
1022. If the maximum operating pressure exceeds 165 psi, then the relief valve needs to operate at _____ psi higher than the max operating pressure.
- ☐ (A) 15 ☐ (B) 5
☒ (C) 10 ☐ (D) 20
1023. A pipe joined with groove couplings shall be joined by a listed combination of couplings, gaskets and groove dimensions
- ☐ (A) deluge systems ☐ (B) drop-out ceiling
☐ (C) standard ☒ (D) groove joining methods
1024. What size common drain pipe must be installed in a stairwell if the system drains are 1 1/2"?
- ☐ (A) 3" ☐ (B) 2 1/2"
☒ (C) 2" ☐ (D) 1 1/2"
1025. Flanges that close off the ends of pipe, valves and pressure vessel openings are called
- ☐ (A) Companion flanges ☐ (B) Drip pans
☒ (C) Blind flanges ☐ (D) Neither