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International Code Council M2

Commercial Mechanical Inspector



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Question: 1

A cooling system with a condensate disposal system:

- A. shall be made of approved corrosion-resistant material and shall not decrease in size from the drain pan connection to the place of condensate disposal.
- B. shall be made of an approved pipe and be at least 1/2-inch in diameter.
- C. shall not be less than 3/4-inch PVC pipe or equivalent approved material.
- D. shall have all horizontal sections of drain piping installed with a minimum of 1/4 inch per foot slope.

Answer: A

Explanation:

The ICC mechanical code requires condensate disposal components to be of approved corrosion-resistant material, and the drain line shall not decrease in size from the drain pan connection to the place of disposal. The code minimum size is 3/4 inch, so the 1/2-inch statement is incorrect, and the code is not limited to PVC only. Also, the slope requirement for horizontal drain piping is not less than 1/8 inch per foot, not 1/4 inch per foot. That makes Option A the only fully correct statement.

Question: 2

To test for tightness, a consumer's gas piping should never be filled with:

- A. air.
- B. dry air.
- C. oxygen.
- D. inert gas.

Answer: C

Explanation:

The IFGC section on test medium states that the test medium shall be air, nitrogen, carbon dioxide or an inert gas, and specifically states that oxygen shall not be used as a test medium. That makes C the correct answer.

Question: 3

The minimum rise required for a 10-foot run of vent connector is _____ inches.

- A. 1-1/4
- B. 1-1/2

- C. 2
- D. 2-1/2

Answer: D

Explanation:

Vent connectors must be installed with a minimum rise of 1/4 inch per foot . For a 10-foot run, the required rise is:

$10 \times 1/4 \text{ inch} = 2.5 \text{ inches}$.

That equals 2-1/2 inches , so Option D is correct.

Question: 4

Which of the following is not a required mechanical inspection?

- A. Final
- B. Rough-in
- C. Underground
- D. Annual system test

Answer: D

Explanation:

The ICC mechanical administrative inspection sequence includes underground inspection , rough-in inspection , and final inspection as required inspections. An annual system test is not listed as one of the required permit inspections in that section, so Option D is the correct answer. This fits the M2 General Administration content area, which includes permit and inspection administration.

Question: 5

Indoor combustion air shall be provided within:

- A. 1 foot of the ceiling and 1 foot of the floor.
- B. 1 foot of the ceiling and 2 feet of the floor.
- C. 2 feet of the ceiling and 1 foot of the floor.
- D. 2 feet of the ceiling and 2 feet of the floor.

Answer: A

Explanation:

For indoor combustion air openings, one opening must commence within 12 inches of the top of the enclosure and one within 12 inches of the bottom . That corresponds to 1 foot of the ceiling and 1 foot of the floor , so Option A is correct.

Question: 6

When a permit is issued, the code requires that one set of approved plans and specifications be returned to the applicant.

This set of plans and specifications shall be:

- A. kept on the building site.
- B. returned to the architect.
- C. filed with the county clerk or jurisdiction to properly record the property.
- D. retained by the applicant for at least one year after the job is finished in the event modifications are made.

Answer: A

Explanation:

Under the ICC administrative provisions used with the mechanical code, one approved set is retained by the code official, and one approved set is returned to the applicant. The returned set must be kept on the site of the building or job while the authorized work is in progress. That directly matches Option A . It does not require return to the architect, filing with the county clerk, or retention for one year after completion.

Question: 7

An 8-inch Type B venting system with a listed vent cap must terminate a minimum of _____ feet above the flat roof through which it passes.

- A. 1
- B. 2
- C. 4
- D. 5

Answer: A

Explanation:

For a Type B gas vent with a listed vent cap terminating through a flat roof , the minimum required termination height is 1 foot above the roof . That makes Option A correct. This is consistent with gas vent termination tables used with listed Type B vent systems and the code framework for Type B vent terminations.

Question: 8

Pipe and duct insulation can be used within plenums except:

- A. where the assembly has been tested to UL 723.
- B. where the flame spread index is not more than 25.
- C. where the assembly has been tested to ASTM B84.
- D. where the assembly has been tested to ASTM E84.

Answer: C

Explanation:

For materials such as pipe and duct insulation within plenums, the IMC references ASTM E84 or UL 723 for surface-burning characteristics, along with the flame-spread and smoke-developed limits applicable to plenums. ASTM B84 is not the referenced plenum test standard here, so it is the incorrect condition and therefore the correct exam answer to the “except” question. This makes Option C correct.

Question: 9

What is the minimum air velocity that must be provided by an exhaust duct system serving a Type I range hood?

- A. 500 FPM
- B. 500 CFM
- C. 1,500 FPM
- D. 2,500 FPM

Answer: C

Explanation:

For commercial kitchen exhaust associated with Type I hood systems, the recognized code-based minimum duct transport velocity is 1,500 feet per minute , so C is the correct answer. Option B uses the wrong unit, and the other listed velocities do not match the code minimum used for this question type.

Question: 10

Where located on a roof with a 5:12 slope, a level platform shall be provided along the access panel of the furnace at least _____ inches wide.

- A. 20
- B. 24
- C. 30
- D. 36

Answer: C

Explanation:

For appliances on roofs, ICC access provisions require a level platform at the appliance. The platform must be not less than 30 inches in any dimension . For the choices provided, that makes 30 inches the correct answer, which is Option C .

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