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Question: 1

Natural gas piping must be sized to prevent excessive pressure drops. The maximum pressure drop allowance is approximately

- A. .0 in. W.c.
- B. 0.2 - 0.6 in. w.c.
- C. 1100°f - 1200°f
- D. .5 in. W.C.

Answer: D

Question: 2

Dual gas shut off seats

- A. The purpose of a flue baffle is to
- B. The "bonnet capacity" of a furnace is
- C. Gas piping must be installed with a pitch of
- D. Redundant gas valves used on gas furnaces have

Answer: D

Question: 3

0.2 - 0.6 in. W.C.

- A. The normal voltage for a hot surface or glow coil igniter is
- B. If voltage is applied across two speed inals on a fan motor, the motor will
- C. What instrument would a technician use to measure return airflow to a furnace
- D. The maximum external static pressure on a typical gas furnace blower system is

Answer: D

Question: 4

A technician starts up a 5 year old natural gas furnace. The main burner lights and after 60 seconds the blower fan comes on, but the burner flames wavers in one corner. The technician suspects

- A. A faulty heat exchanger
- B. A faulty vent system
- C. A faulty bower housing
- D. A defective gas valve regulator

Answer: A

Question: 5

12 - 14 AWG

- A. A technician starts up a 5 year old natural gas furnace. The main burner lights and after 60 seconds the blower fan comes on, but the burner flames wavers in one corner. The technician suspects
- B. A technician connects the electrical circuit to an 80,000 BTU gas furnace with a 3- ton cooling system. The furnace fan motor is rated 1/3 HP @ 120VAC. What size copper conductor would normally be used for the furnace
- C. A technician deines that a natural gas furnace has a defective heat exchanger. The technician should
- D. A technician is using an extension ladder to work on roof top unit. The top of the ladder should extend _____ beyond the support point

Answer: B

Question: 6

Pipe joint compound should be applied to

- A. Combustion analyzer
- B. Female threads
- C. Male threads completely
- D. Male threads, less two end threads

Answer: C

Question: 7

On a mid-efficiency induced draft furnace the anticipator is wired in series with the

- A. Gas valve
- B. Integrated circuit board

- C. Short the pc board
- D. Lockout relay

Answer: B

Question: 8

Increase fan speed

- A. A furnace nameplate specifies a temperature rise of 40 to 70 degrees. Temperature measurements indicate a rise of 80 degrees. The most appropriate action is to
- B. A technician starts a standing pilot furnace and notices on main ignition the flames "roll out". The technician suspects
- C. A gas furnace is to be installed in a garage. The national standards require that the burners and ignition sources must be located _____ above the floor
- D. Failure to wire a replacement low voltage transformer in an electronic ignition furnace, based on its noted polarity, will

Answer: A

Question: 9

Inform the homeowner and turn the gas off

- A. A technician starts a standing pilot furnace and notices on main ignition the flames "roll out". The technician suspects
- B. A technician solders a spade connectors to a wire. What type of solder should he use
- C. A technician starts up a 5 year old natural gas furnace. The main burner lights and after 60 seconds the blower fan comes on, but the burner flames wavers in one corner. The technician suspects
- D. A technician deines that a natural gas furnace has a defective heat exchanger. The technician should

Answer: D

Question: 10

The "bonnet capacity" of a furnace is

- A. Furnace output BTU's
- B. Meters gas to the burner
- C. Furnace category Rating.
- D. Mix primary air and gas

Answer: A

Question: 11

When a Category IV LP unit is properly installed and operating normally with 50% excess air, the CO2 content of the exhaust gases is

- A. 28% to 40%
- B. 12% to 40%
- C. 10% to 14%
- D. 18% to 28%

Answer: C

Question: 12

Low manifold pressure

- A. A primary cause of burner "flashback" is
- B. Thermostat wire comes in two standard gauges
- C. The "bonnet capacity" of a furnace is
- D. Redundant gas valves used on gas furnaces have

Answer: A

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